LIFELONG LEARNING

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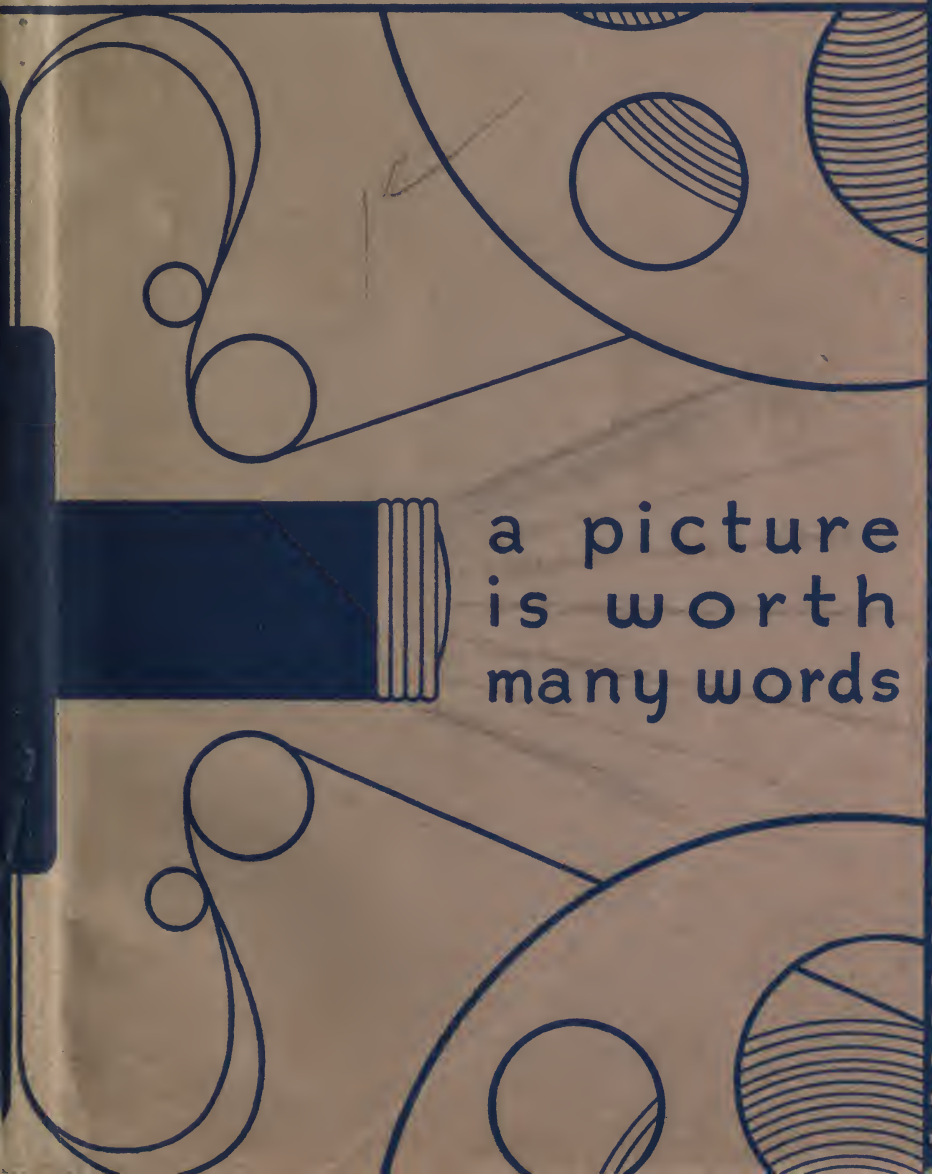

VISUAL AIDS TO EDUCATION

A CATALOGUE OF EDUCATIONAL 16MM
AND 35MM MOTION PICTURE FILMS
AND GLASS SLIDES

OFFERED FOR LOAN

1936-37

UNIVERSITY OF CALIFORNIA EXTENSION DIVISION
DEPARTMENT OF VISUAL INSTRUCTION
BERKELEY, CALIFORNIA

LIFELONG LEARNING

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UNIVERSITY EXTENSION

The Extension Division offers facilities to men and women who seek some form of higher education but, on account of occupation or for any other reason, are prevented from taking up residence at the University. In other words, the University of California furnishes, through the Extension Division, opportunities to adults living in any part of the State and engaged in the pursuit of their vocations that it offers to students in residence.

The work is carried on in five ways:

1. Class Instruction. Classes are organized in cities and towns wherever a sufficient number of people can be secured who wish to study the same subject. Instruction is offered in languages, literature, public speaking, mathematics. political science, business methods, economics, art, education, Americanization, history, geography, law, psychology, science, engineering subjects, etc.

2. Correspondence Instruction. Courses by mail are given in the languages, in literature, mathematics, music, drawing, education, political science, engineering, etc. Courses may begin at any time.

3. Lectures. Lectures singly or in series are provided for any committee, club, organization, or community in the State that will make the necessary arrangements for their delivery.

4. Labor Education. Educational facilities designed to serve the needs of industrial workers are offered.

5. Visual Instruction. The Extension Division circulates visual aids such as stereopticon slides and motion picture reels, which cover many phases of educational work.

Persons desiring to take advantage of the facilities offered by any one of these departments may receive detailed information on request. Address the Extension Division, University of California, 301 California Hall, Berkeley, California.

LISTEN · LOOK · STUDY

By PROFESSOR LEON J. RICHARDSON

The traveler who has hitherto not voyaged over seas, is likely to remember all the rest of his days the first foreign port at which his ship calls. Many will bear witness to the truth of this observation. An American, for example, who went abroad and afterwards related his experiences, dwelt on what he called "his first port." "Words fail to describe," he said, "the impression made on me as the liner on which I was a passenger, moved slowly one morning out of the mists into the picturesque port of Antwerp. The scene thrilled me. I shall never forget it. The docks, the shipping, the buildings, the green land, the people in their peculiar styles of dress, all struck me as intensely interesting. The picture before me seemed, as if by magic, to confirm all I had read and heard of the Netherlands. The country, its people, and their history suddenly became for me real."

The ideal situation of the learner is here illustrated. Part of his knowledge comes from what he hears, part he gets by reading or studying, and part comes from what he sees or observes. Learning is likely to be thorough when it includes all three types of educational experience. Without seeing, the process of learning is slow and the results may remain vague. Hence the value of visual aids in many fields of instruction.

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REGULATIONS GOVERNING SERVICE

Sixteen millimeter films whose descriptions are preceded by an asterisk (*) are equipped with printed teacher's aid. For further information on these aids see pages 1–2–3.

SERVICE CHARGE

When films are booked for more than one day, the full service charge will be fixed for the first day of use, and half the service charge for each additional day the film is in the possession of the user.

For films booked by the week, the charge is 3 times the initial one-day rate quoted in the catalogue.

Films must be reserved for such additional uses and days in advance, otherwise the full service charge will be fixed for each day that material is held without permission.

Motion pictures listed as "Feature Pictures" and the Chronicles of America Photoplays do NOT come under these special rates. When requested, special quotations for additional days and uses will be made for such pictures.

For each set of glass slides, the service charge is 50 cents a day, except for the religious sets which are $1.00 a set. Special arrangements for use of slides may be made. See page 129.

RESPONSIBILITY FOR GOOD CARE

The user will be held responsible for the good care of all films and slides and will be held liable for damages occurring to them while in his possession, regardless of the causes of such damages.

The Department of Visual Instruction, which carefully inspects all material immediately after its return from each user, reserves the exclusive right to determine the extent of damage in each case.

If damage occurs, users will be billed for the cost of making replacements. Film replacements cost from five to ten cents a foot. The cost to replace slides is forty-five cents each for plain slides, and from one to two dollars for colored slides.

PROJECTORS AND STEREOPTICONS

Special arrangements by individuals or organizations may be made to rent 16 mm. and 35 mm. projectors, and stereopticons from the Department of Visual Instruction.

A 16 mm. sound projector may be rented to individuals or organizations in the Bay area. The Department's operator must accompany the projector.

HOW TO ORDER

1. Order only from this catalogue and supplements which may follow. Addressed order blanks will be furnished upon request.

2. Order by CORRECT SIZE of film (16 or 35 mm.). The 16 mm. films will be found listed from page 1 to page 78; the 35 mm. films from page 79 to page 128; slides from page 129 to page 150. Order by both name and number of the film, or set of slides.

3. *Give a second and third choice* of both films or slides and dates. This is necessary, as the first choice may have a previous booking for the date requested.

4. *Order well in advance.* Orders should reach this office at least one week in advance of date of intended use. The Department reserves the right to make substitutions in late orders. *If possible, make selections for the entire school year at the beginning of the term.* You will thus be assured of getting your preferences at the date you wish.

5. Orders must contain the name of the individual or organization to whom shipment is to be made, and also the name of the individual or organization to whom the bill is to be sent.

6. Specify definitely if films are to be shipped by *express* or *parcel post.*

SHIPMENTS

When sufficient time is not allowed, the Department of Visual Instruction reserves the right to ship by means other than parcel post and to assess the user.

35 mm. Films and Glass Slides

The cost of the postage, if sent by parcel post, and a service charge of five cents (5¢) for each shipment will be added to the bill. Shipments are to be returned transportation prepaid. Orders cannot be cancelled after shipment is made.

The rental charge includes the transportation charges from Berkeley to point of destination. The user must pay the return charge. Out of state users must pay transportation charges both ways.

SPECIAL NOTICE: DO NOT REWIND FILMS AFTER LAST SHOWING!

RETURN SHIPMENTS

Return shipments must be made not later than the morning after date of scheduled use. All shipments must be returned prepaid. A bookkeeping charge of twenty-five cents (25¢) will be made on all shipments returned collect in addition to the transportation charges.

STATEMENTS

The service charge is C.O.D. or payment on order except to persons or organizations establishing credit with the Department. In such cases bills are sent the day of shipment. Make out checks to THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, and mail to the Comptroller's Office, California Hall, Berkeley, California. **All bills must be attached to checks.** Receipts will be mailed only upon request.

All claims for adjustments or credit must be made within thirty days after date of use.

Address all communications to:

University of California Extension Division, Visual Instruction
301 California Hall Berkeley, California
Telephones: Ashberry 6000, locals 284 and 368

THE PICTORIAL HISTORY OF CALIFORNIA

The "Pictorial History of California" was published by the Extension Division for teachers who wish to use pictures of persons, places, and scenes concerned in the romantic history of the State of California. The material was selected both for historical accuracy and pictorial excellence. The narrative puts each picture into its proper historical setting.

For those wishing the entire series of 261 prints contained in the "Pictorial History of California," the Division offers unbound sets of prints at $5.00, and buckram bound volumes at $7.50.

Prints depicting certain periods of Californian History may be had at the following low rates, postpaid to points in California:

Title	No. Prints	Price
I. Indians of Early California	22	$ .50
II. Discovery and Colonization	19	.50
III. The Missions	47	1.75
IV. Spanish Days in California	20	.75
V. The Days of Gold	44	1.75
VI. Californian Cities, 1849–80	52	1.00
VII. Development of Transportation from '49 to Date	23	.50
VIII. Development of Californian Industries	34	.50

Single prints, 5 cents each, postpaid to points in California. Special arrangements may be made when a quantity on one order is desired.

Stereopticon slides from the Pictorial History are also on sale. Any scene or group of scenes may be selected. The price for uncolored slides is 50 cents each, and for colored slides, $1.15.

16 MM MOTION PICTURES

16 MM
MOTION PICTURES

Printed teacher's manuals are available for 16mm. films whose descriptions in this catalogue are preceded by asterisks (*). Upon request, these manuals will be loaned with the film free of charge.

To get the greatest benefit from such manuals, teachers should study them well in advance of the showing of the film. Hence, the Department of Visual Instruction offers the manuals for sale at cost. Prices are quoted below.

Each manual contains a general survey of the film content, explanations of the most important scenes, suggestions for project work, bibliographies, and other instructions to make the film most effective as a teaching medium.

DE VRY TEACHING FILM MANUALS (5c each)

NATURE STUDY

25–20 The Sky.
25–21 Our Earth.
25–22 How Living Things Find a Home on Earth.
25–23 Butterflies and Moths.
25–24 Ants.
25–25 Bees and Spiders.
25–26 Seaside Friends and Cousins.
25–27 A Day at the River.
25–28 Down at Our Pond.
25–29 In Birdland.
25–30 Pirates of the Air.
25–31 Pets.
25–32 Furry Creatures.
25–33 Friends of Man.
25–34 Preparing a Garden. Pt. 1.
25–35 Preparing a Garden. Pt. 2.
25–36 Growing Things.
25–37 Fruits and Flowers.

BIOGRAPHY

25–38 George Washington.
25–39 Benjamin Franklin.
25–40 Thomas Jefferson.
25–41 Alexander Hamilton.
25–42 Daniel Webster.

CIVICS AND CITIZENSHIP

25–44 Immigration.
25–45 American Ideals.
25–46 Service.
25–47 Obedience.
25–48 Thrift.
25–50 School Beautiful.
25–51 School Discipline.
25–52 School Industries.
25–53 Working with Civic Organizations.
25–54 Serving the Community. Pt. 1.
25–55 Serving the Community. Pt. 2.

GEOGRAPHY

25–56 People in the Arctic.
25–57 People at the Equator.
25–58 People in the Desert.
25–59 People in the Mountains.
25–60 People in Crowded Valleys.
25–61 People on Great Plains.
25–62 People by the Sea.
26–63 Modern Commerce.
25–64 People in Industry.

VOCATIONAL GUIDANCE

26–65 The Farmer.
25–66 The Industrial Worker.
25–67 The Skilled Mechanic.
25–68 The Engineer.
25–69 The Executive.
25–70 The Salesman.
25–71 The Doctor.
25–72 The Journalist.
25–73 The Artist.

GENERAL SCIENCE

25–74 Air.
25–75 Fire and Heat.
25–76 Water.
25–77 The Earth.
25–78 Transportation.
25–79 Communication.
25–80 Energy and Work.
25–81 Life.
25–82 Man.

HYGIENE

25–83 Armies of Health and Disease.
25–84 Disease Carriers.
25–85 General Health.
25–86 Food.
25–90 Eyesight.
25–91 Little Brothers and Sisters.

ELECTRICITY

25–92 and 93 Principles of Magnetism.
25–94 and 95 Principles of Electrostatics.
25–96 and 97 Principles of Current Electricity.
25–98 and 99 Principles of Electro-Magnetism.
25–100 and 101 Principles of Current Generation.
25–102, 103, 104 and 105 Principles of Electrical Measurement.

EASTMAN TEACHING FILM MANUALS (15c each)

AGRICULTURE

25–212 Luther Burbank.
25–220 Irrigation.
25–116 Cattle.
25–117 Wheat.
25–161 Range Sheep.

CIVICS AND CITIZENSHIP

25–110 Safety at Sea.

FORESTRY

25–115 Reforestation.

GENERAL SCIENCE

25–216 Fire Making.
25–217 Behavior of Light.
25–218 Simple Machines.
25–219 Steam Power.
25–112 Water Cycle.
25–123 Compressed Air.
25–353 Water Power.
25–124 Atmospheric Pressure.
25–272 Four-Stroke Cycle Gas Engine.
25–273 Volcanoes.
25–325 Weather Forecasting.
25–277 Development of a Bird Embryo.
25–285 Microscopic Animal Life.
25–326 Green Plant.

GEOGRAPHY

25–113 Panama Canal.
25–114 Arid Southwest.
25–170 Denmark.
25–183 Bahamas to Jamaica.
25–184 Haiti to Trinidad.
25–185 Central America.
25–186 Boone Trail.
25–188 East Indian Island.
25–190 Golden Gate.
25–191 Hawaiian Islands.
25–195 Mexico.
25–197 Overland to California.
25–198 Philippine Islands.
25–201 Continent of South America.
25–202 Washington, D. C.
25–287 Chile.
25–288 Pueblo Dwellers.
25–289 Alaska.
25–290 Bolivia.
25–291 Peru.
25–292 The Old South.
25–293 Peasant Life in Hungary.
25–352 Yellowstone Natl. Park.
25–355 Life in the Sahara.
25–356 Oregon Country.
25–359 The New South.
25–360 Glacier Natl. Park.
25–362 Argentina.
25–363 Brazil—Amazonian Lowlands.
25–364 Brazil—Eastern Highlands.

HEALTH AND HYGIENE

25–203 Body Framework.
25–204 Muscles.
25–205 Posture.
25–206 Skin.
25–111 New York Water Supply.
25–121 Circulation.
25–122 Life History of the Mosquito.
25–127 Blood.
25–159 Breathing.
25–160 Circulatory Control.
25–270 Fire Protection.
25–358 Sewage Disposal.
25–271 Care of the Teeth.
25–276 Digestion.
25–278 Bacteria.
25–280 First Aid—Life Saving and Resuscitation.
25–281 First Aid—Control of Bleeding.
25–282A Carrying the Injured.
25–282B Care of Minor Wounds.
25–283 Fire Safety.
25–327 The Feet.
25–354 The House Fly.
25–357 Tuberculosis.

HISTORY

25–323 Abraham Lincoln. (25c)

INDUSTRY AND BUSINESS

25–187 Mining and Smelting of Copper.
25–189 Gold.
25–192 Ocean Liners.
25–193 Lumbering in Pacific Northwest.
25–194 Meat Packing.
25–196 Producing Crude Oil.
25–199 Rubber.
25–200 Pacific Coast Salmon.
25–118 From Wheat to Bread.
25–119 Iron Ore to Pig Iron.
25–120 Pig Iron to Steel.
25–267 Silk.
25–268 Automobile.

NATURE STUDY

25–207 Adventures of Peter.
25–208 Bird Homes.
25–209 Game Birds.
25–210 Birds of Sea-Coast.
25–211 Wading Birds.
25–213 Water Insects.
25–214 Rocky Mountain Mammals.
25–215 Some Larger Mammals.
25–269 Termites.
25–274 Reptiles.
25–275 Spiders.
25–279 Frogs, Toads and Salamanders.
25–284 Wild Flowers.

25–228 to 25–231 Life of George Washington (50c—One Manual covers 4 reels).

AGRICULTURE

No.	Subject	No. Reels	Service Charge
*25–65	**The Farmer**	1	1.00
	Life on diversified farm. Corn, hay and grain, livestock; home and social life.		
25–148	**Yoke of the Past**	3	1.50
	Modern machine methods of farming contrasted with old methods.		
*25–212	**Luther Burbank**	1	1.00
	Burbank's important projects. I. Cactus. II. Lily. Cotton, paper-shelled walnuts. Burbank potatoes. III Wheat and oats.		
*25–220	**Irrigation**	1	1.00
	I. Roosevelt project: power house and dam. II. Imperial Valley project: diversion dam, main canal, side ditches, method of measuring water supplied farms. III. Irrigation in San Diego region: wooden and concrete flumes, piping under pressure to higher arid regions.		
*25–116	**Cattle**	1	1.00
	I. Life on cattle ranch. II. Alfalfa for winter feed. III. Shipping cattle. IV. Rodeo.		
*25–161	**Range Sheep**	1	1.00
	I. Herding in spring. II. Shearing in summer. III. Shipping mutton in fall. IV. Care in winter.		
*25–117	**Wheat**	1	1.00
	Map of United States wheat region. I. Pioneer wheat farming. II. With machinery. III. Storing and marketing wheat.		
25–165	**Banana Land**	1	.50
	Growing bananas in Tela. Shipping.		

United States Department of Agriculture Films

These films were made by the United States Department of Agriculture. **All transportation charges are to be paid by the user.** Films may be used for more than one day without additional cost, but reservation must be made in advance.

No.	Subject	No. Reels	Service Charge
25–343	**Rabbit Farming**	2	.30
	Breeds of domestic rabbits; rabbitries of various types; possibilities of rabbits for meat and fur.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–344	**Preparing to Irrigate** Different types of ditch-making machinery; location for field ditches; necessity for keeping ditches free from moss and weeds.	1	.30
25–345	**Conveying and Measuring Irrigation Water** Use of gates, flumes and syphons; methods of proportioning water; types of weirs (including the Parshall flume), and the value of soil tests.	2	.30
25–346	**Preparation and Marketing of Dressed Poultry** Grading live poultry at country feeding stations; feeding and care of feeding room; picking, precooling, and packing; Long Island duck industry; cold storage; Government grades.	2	.30
25–379	**Home Demonstration Work in the Western States** Portrays the more important phases of the work in the West.	2	.30
25–380	**Home Is What You Make It** A story picture showing how a dilapidated house may be improved by repairs, painting, and landscaping.	3	.50
25–381	**Watching the Weather Above** Aerial activity, including the Army, the Navy, the airmail service, forest-fire airplane patrols, and airplanes in insect control; importance of weather forecasting to successful aviation; how observations are made for flying-weather forecasts.	2	.30
25–382	**Highway Beautification** Suggests ways to preserve and enhance the beauty of roadside plant material and otherwise beautify highways, and add to the safety and comfort of travel by elimination of obstructions interfering with vision and by the removal of eyesores. Recommendations are made concerning construction scars, steep banks, scenic lookouts, guard rails, automobile camps, bridges, etc.	2	.30
25–451	**How Forests Serve** Designed to teach values of the forest to mankind—importance of proper management of the forest.	1	.30
25–452	**Irrigation—A Brief Outline** A general picture on irrigation covering the subjects of preparing to irrigate—conveying and measuring irrigation water—irrigating field crops and orchards.	1	.30
25–453	**Forests and Streams** To teach the importance of protecting the forest soil and maintaining its water—storage capacity.	1	.30

No.	Subject	No. Reels	Service Charge
25–454	**Unburned Woodlands** A companion picture to "Forest Fires or Game?"—of interest to campers and nature lovers.	1	.30
25–455	**What the Forest Means to You** Designed to set forth the dependence of mankind upon the forest, and the evils that follow in the wake of total destruction of forest cover.	2	.30
25–456	**The Forest and Water** Designed to point out the vital influence that the forest has on water supply. Photography made largely in the mountains of western North Carolina.	1	.30
25–457	**Game Management** Deer in Kaibal National Forest—method of adjusting size of herd to plant life—deer shipped to less populated regions—regulated deer hunting—catching mountain lion—trapping coyotes.	2	.30
25–458	**Our Wild Life Resources** Shows what is being done to preserve our birds and mammals. Many forms of wild life, ranging from quail and ducks to moose and grizzly bears are shown in their natural habitat.	2	.30
25–459	**The Will and the Way** Shows the remodeling of an old farm house into a modern home.	2	.30
25–460	**Mosquitoes** Points out the baleful influence of mosquitoes on both human and animal life—traces their life history and discusses methods of control.	3	.50
25–461	**Porcupine Control in Western States** Shows physical characteristics of the porcupine and why the quills are so dangerous to livestock—migrations—great damage done, especially to young trees in our national forests—how to mix poison bait and apply it in "rest" trees and dens.	2	.30
25–462	**Chaparral** Showing value of chaparral which covers high Sierras as water reservoir—melting snow conserved by dams—spreading over gravel beds—raising from natural storage reservoirs by pumping stations when needed.	2	.30
25–463	**Building Truck Trails in the National Forests** Lowering the cost of constructing truck trails in the national forests by the employment of modern machines.	1	.30
25–464	**A B C of Forestry** Teaches the fundamentals of tree growth and good forestry practices.	1	.30

No.	Subject	No. Reels	Service Charge
25–465	**Club, College, Farm, and Home**	1	.30
	A group of farm children go to college at Pullman, Washington, to learn about taking care of calves, sheep, poultry, hogs and horses. The girls learn sewing and how to make their homes more attractive.		
25–466	**Tunneling to Yosemite**	2	.30
	Dangers of old Wawona Road shown—site for tunnel is selected—drilling and dynamiting out of solid rock—completed tunnel 4,320 feet long. Some scenes of Yosemite.		
25–467	**Forest Fire**	1	.30
	Putting out small fires—fighting big fires, showing the hiring of fighters, packing their supplies, digging trenches, felling trees, bringing up water from streams with portable pumps—air patrol locates fire and drops message to fighters.		
25–500	**Duck Farming**	1	.30
	Breeds of ducks; farm flocks; commercial duck farming on Long Island.		
25–501	**Beavers at Home**	2	.30
	Beavers at work repairing dams and felling trees; beaver houses; studies of baby beavers.		
25–502	**The Master Farmer**	2	.30
	The master-farmer movement as exemplified by results in Oklahoma; scenes illustrating the farm and home life of farmers who have made a success of farming in the fullest sense of the word.		
25–503	**Back of the Weather Forecast**	2	.30
	How the Weather Bureau judges what the weather is going to be. Shows how weather information is obtained and how forecasts are made after the information has been assembled and plotted on weather maps.		
25–504	**The Horse and Man**	1	.30
	An acknowledgment of the horse's part in the conquest of the New World and in modern American life. Indian ponies, cow horses, plow horses, cavalry mounts, race horses, hunters, truck horses, and bucking broncos.		
25–505	**The Forest and Health**	1	.30
	How the forest ministers to the spiritual and physical health of mankind.		

No.	Subject	No. Reels	Service Charge
25–506	**A Tale of Two Bulls**	¾	.30
	An animated cartoon dealing with advantages in following the practices of the better-sires movement. Brown's dairy farm is transformed through his membership in a bull association. Especially interesting for rural communities.		
25–507	**Maintenance of Roads**	1	.30
	Emphasizes the importance of keeping roads in good condition and shows some of the ways in which it may be done. Points out that adequate maintenance tends to make roads safer for traffic, reduces the upkeep cost of roads and also the operating cost of motor vehicles.		
25–508	**Roads in Our National Parks**	1	.30
	A panorama of the service performed by the Bureau of Public Roads in construction of modern highways in our western national parks. The scenic wonders of Yosemite, Glacier, Rocky Mountain, Mount Rainier, Mount Lassen, and Mesa Verde National Parks.		
25–509	**Forest Fires—or Game?**	1	.30
	Unburned forests are a home for game birds and animals, and forest streams a home for fish, but forest fires and unrestricted hunting and fishing make restocking with game and fish necessary. Of interest to those who use our forests for recreation.		
25–510	**Forest and Wealth, The**	1	.30
	A story of the forest's contribution to industry and to the comfort and wealth of mankind.		
25–511	**It Might Have Been You**	1	.30
	Portrays a disastrous forest fire that in 7 hours destroyed over 23,000 acres of timber and 25 ranch houses and rendered over 100 people homeless—all due to the carelessness of a ranch hand. Shows what the Forest Service is doing to prevent such a catastrophe.		
25–512	**How to Handle Foxes**	2	.30
	Shows approved methods of catching and holding as practiced on fox farms. Of special interest to veterinarians.		
25–513	**Carry On**	2	.30
	Tom West's experiences at the national encampment of 4-H clubs.		

No.	Subject	No. Reels	Service Charge
25–515	**Regulated Deer Hunting**	2	.30
	Shows damage done by deer when they become too numerous, and how they are removed by trapping, artificial rearing and shipping of fawns, and by regulated hunting in the Pisgah National Forest and Game Preserve in North Carolina.		
25–516	**The Realm of the Honey Bee**	4	1.00
	Life history of the honey bee, containing some unusual close-ups.		

ASTRONOMY

(See page 60)

BIOGRAPHY

(See pages 32–36)

BIOLOGY

(See pages 39, 51–61)

BOTANY

(See pages 51–60, 62. Sound, pages 71–72.)

CHEMISTRY

(See page 63. Sound, page 75.)

CIVICS AND CITIZENSHIP

*25–110	**Safety at Sea**	1	1.00
	I. Safeguards to navigation: lighthouses, lightships, buoys, etc. II. Coast Guard service. III. Coast Guard rescue.		
*25–45	**American Ideals**	⅔	1.00
	Pierre Bernard and family visit brother Frank's farm. Story of how farm was purchased and improved. Pierre buys a farm. (Elementary)		
*25–46	**Service**	½	.75
	Pierre Bernard's family makes attractive home. Pierre becomes a citizen. Explains to his children meaning of good citizenship. (Elementary)		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–47	**Obedience**	½	.75
	Bernard family at home. Emile, the son, disobeys parents. Father explains what would happen if everyone did as he wished. Emile decides to be obedient. (Elementary)		
25–382	**Highway Beautification**	2	.30
	Suggests ways to preserve and enhance the beauty of roadside plant material and otherwise beautify highways, and add to the safety and comfort of travel by elimination of obstructions interfering with vision and by the removal of eyesores. Recommendations are made concerning construction scars, steep banks, scenic lookouts, guard rails, automobile camps, bridges, etc. (U.S.D.A.)		
25–507	**Maintenance of Roads**	1	.30
	Emphasizes the importance of keeping roads in good condition and shows some of the ways in which it may be done. Points out that adequate maintenance tends to make roads safer for traffic, reduces the upkeep cost of roads and also the operating cost of motor vehicles. (U.S.D.A.)		
25–513	**Carry On**	2	.30
	Tom West's experiences at the national encampment of 4-H clubs. (U.S.D.A.)		
25–380	**Home Is What You Make It**	3	.50
	A story picture showing how a dilapidated house may be improved by repairs, painting, and landscaping. (U.S.D.A.)		
25–511	**It Might Have Been You**	1	.30
	Portrays a disastrous forest fire that in 7 hours destroyed over 23,000 acres of timber and 25 ranch houses and rendered over 100 people homeless—all due to the carelessness of a ranch hand. Shows what the Forest Service is doing to prevent such a catastrophe. (U.S.D.A.)		
25–388	**The Woman Worker, Past and Present**	1	.50
	Changed economic status which industrial revolution gave to woman. Advantages of present system; disadvantages. Suggestions for elimination of latter.		
25–398	**Making Money**	1	.50
	A film trip through the Royal Mint at Ottawa, the capital of Canada, showing the various processes in the making of Canada's coinage.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–48	**Thrift**	1	1.00
	Father Bernard explains meaning of thrift to Emile, using Richard's Almanac as example. Emile dreams Poor Richard shows him various examples of thrift and thoughtfulness. (Elementary)		
*25–51	**School Discipline**	1	1.00
	The Student Advisory Board in the elementary school. Through student rule boys learn to apologize for conduct and pay for damages to school property. (Elementary)		
*25–50	**School Beautiful**	⅔	1.00
	First day of school. Children plan to improve grounds. Study how to plant lawn, vines, etc. Boys study soil mixture. Planting class tree. (Elementary)		
*25–52	**School Industries**	1	1.00
	School children start vegetable garden and turn old room into cafeteria. Girls learn to cook and at small cost serve lunch. (Elementary)		
*25–53	**Working with Civic Organizations**	⅔	1.00
	Children plan to make poor section of town beautiful. Furnish and rebuild a model house. Turn it into a Community House, and teach neighbors how to make their homes beautiful. (Elementary)		
*25–54	**Serving the Community, Part I**	½	.75
	Mary Willis has typhoid fever. Principal of school explains causes and tells of housefly as common carrier. School plans campaign against fly. (Elementary)		
*25–55	**Serving the Community, Part II**	½	.75
	Housefly campaign started by mapping out town and breeding spots. Canvass locates places. Individual owners forced to clean up. (Elementary)		
*25–111	**New York Water Supply**	1	1.00
	I. New York City and Harbor. II. Catskill water supply. III. Carrying water to New York. IV. Distributing.		
*25–249	**Interdependence**	2	1.00
	Designed to give individual better understanding of place in present-day society. Illustrations of interdependence in work and play familiar to children. Examples of specialization and coöperation on farm, in village, city, nation, and among nations.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–115	**Reforestation**	1	1.00
	Southern Appalachian forests. I. Effects of wasteful cutting. II. Tree nursery. III. School project in reforestation.		
25–286	**Free Schools: The Hope of Democracy**	2	2.00
	Services which modern school performs. Taking care of children of women employed in industry, teaching trades and crafts, instructing in home-making, building character and personality, supervising physical as well as mental development, Americanizing immigrants, eliminating adult illiteracy, training machine-displaced laborers for new jobs, aiding in public emergencies, and feeding children of unemployed.		
25–420	**Story of Women's Bureau**	1	.50
	History of the Women's Bureau—its work in collecting statistics and information.		
25–421	**Behind Scenes in Machine Age**	3	1.00
	Deals with general theme of human waste in industry, particularly as related to women workers. Need for well-planned program of adjustment of workers displaced by machines. Plans to promote welfare of women workers.		
25–419	**Within the Gates**	2	1.00
	Importance of woman in present day economic life—how nearly every commodity passes at various stages in its manufacture through hands of women.		

ECONOMICS

(See pages 40–49)

EDUCATION

25–44	**Rhythmic Action**	4	2.00
	A film of special interest to teachers, produced at the University elementary training school. Activities of children on the nursery school playground. Creative work and play in the grades from first through seventh. Interpretation and expression through rhythmic motion.		

ELECTRICITY

(See pages 66–69. Sound, page 75.)

* Film lesson available. See introductory paragraph on page [v].

ENGINEERING

(See also page 66. Sound, page 76.)

No.	Subject	No. Reels	Service Charge
*25-68	**Engineer, The**	1	1.00
	The man who solves problems. Designing bridges, tunnels. Need for knowledge of men and of materials.		
25–508	**Roads in Our National Parks**	1	.30
	A panorama of the service performed by the Bureau of Public Roads in construction of modern highways in our western national parks. The scenic wonders of Yosemite, Glacier, Rocky Mountain, Mount Rainier, Mount Lassen, and Mesa Verde National Parks. (U.S.D.A.)		
25–507	**Maintenance of Roads**	1	.30
	Emphasizes the importance of keeping roads in good condition and shows some of the ways in which it may be done. Points out that adequate maintenance tends to make roads safer for traffic, reduces the upkeep cost of roads and also the operating cost of motor vehicles. (U.S.D.A.)		
25–382	**Highway Beautification**	2	.30
	Suggests ways to preserve and enhance the beauty of roadside plant material and otherwise beautify highways, and add to the safety and comfort of travel by elimination of obstructions interfering with vision and by the removal of eyesores. Recommendations are made concerning construction scars, steep banks, scenic lookouts, guard rails, automobile camps, bridges, etc. (U.S.D.A.)		
25–404	**The Boulder Dam**	4	4.00
	A survey of the Boulder Dam project from the first preliminary construction in 1931 until the present time. The problem of the Colorado River; hazardous conditions of surveying; blasting for railroads, highways, and power lines; excavating for the diversion tunnels; building cofferdams in record time; dumping concrete from eight-cubic yard buckets suspended from cableways; the huge concrete mixing plant; rail skidways and cableway skips to transport men across the canyon; workmen tamping and spraying concrete after dumping; intake towers, spillways, and drum gates; manufacturing huge 30-foot pipes to line tunnels. Boulder City, built in fifteen months to accommodate workmen and officials. The official picture of the Department of the Interior, produced by the U. S. Bureau of Reclamation. Included is the latest addition to this film made in midsummer, 1935, showing the completion of the dam.		

* Film lesson available. See introductory paragraph on page [v].

FEATURE FILMS

These films are booked through exchanges and therefore are not subject to editing. The Extension Division as an accommodation will make arrangements for booking these films. The price is now **$5.00 per school.**

No.	Subject	No. Reels	Rental Price
The Covered Wagon	Vivid portrayal of pioneer caravans to California.	6	5.00
The Pony Express	Founding of the Pony Express and thrills of the first trip westward bearing news of Lincoln's election.	5	5.00
Buffalo Bill on the U. P. Trail		6	5.00
General Custer at Little Big Horn	Hard riding and Indians.	6	5.00
Red Raiders	Indians attack a stage coach. Frontier Army Post life, Indian war dances.	5	5.00
Hands Up	A Confederate spy goes west to stop the Union supply of gold. Hold-ups, Indian battles. A clever story with comedy.	5	5.00
Thundering Hoofs	Smugglers on the Mexican border.	5	5.00
We're in the Navy Now	Comedy.	5	5.00
Behind the Front	A detective and a burglar enlist for war and become buddies.	5	5.00
Betsy Ross	The making of our flag dramatized. Costumes and settings of the period.	5	5.00
Lost World	A trip into the jungle in search of The Lost World, wherein many prehistoric monsters dwell. For upper grades and junior high school.	5	5.00
Conductor 1492	Comedy.	6	5.00
Peck's Bad Boy	Jackie Coogan as the little scamp always in mischief.	5	5.00

No.	Subject	No. Reels	Rental Price
School Days	A youngster whose main ideas revolve around worms and fishing tackle.	5	5.00
The Americano	A mining engineer gets into the midst of a South American revolution.	5	5.00
With Daniel Boone Through the Wilderness	Kentucky in the 1750's; Boone's great valor; romance, suspense and action.	6	5.00
With Davy Crockett at the Fall of the Alamo	The Alamo, exactly reproduced as it was in 1836.	6	5.00
Barbara Frietchie	Edmond Lowe, Florence Vidor. Story of the Civil War.	8	5.00
California Straight Ahead	Reginald Denny, Gertrude Olmsted. Comedy. Ends with an exciting auto race.	7	5.00
Skinner's Dress Suit	Reginald Denny. Comedy.	7	5.00
Embarrassing Moments	Reginald Denny, Myrna Kennedy. Comedy.	7	5.00
Hoofbeats of Vengeance	Jack Perrin and Rex, the wonder horse; the Canadian Mounted Police; capturing a band of smugglers.	5	5.00
Parade of the West	Ken Maynard as a cowboy and member of one of the old-time medicine shows. Action. Spectacular riding.	6	5.00
Clash of the Wolves	Rin-tin-tin, famous dog actor. The wounded leader of a wolf pack, tended and tamed by a prospector, repays human kindness.	5	5.00
The Fighting Eagle	Rod La Rocque, Phyllis Haver in an intrigue between Napoleon's army and enemies. Romance, suspense, action.	5	5.00
Eagle of the Sea	Ricardo Cortez, Florence Vidor. A romance of the sea; full-rigged ships; fighting pirates.	5	5.00
The Return of Grey Wolf	Leader, the wolf dog whose master is a fur trapper.	5	5.00
Clear the Decks	Reginald Denny. Mistaken identity. Comedy.	6	5.00

No.	Subject	No. Reels	Rental Price
	With Kit Carson Across the Great Divide	6	5.00
	Wild Beauty (Rex the Wild Horse)	5	5.00
	The Night Cry (Rin-tin-tin)	5	5.00
	The Hoosier Schoolmaster	5	5.00
	Legend of Sleepy Hollow (Will Rogers)	5	5.00
	One Hysterical Night (Reginald Denny)	6	5.00
	Rip Van Winkle (Thomas Jefferson)	6	5.00
	California in '49	6	5.00
	Man Without a Country	8	5.00
	The Outlaw Breaker	8	5.00
25–341	**In a Glistening Paradise**	7	10.00 in Calif 15.00 out of state
	See page 58.		
25–251	**Robinson Crusoe**	4	4.00
	Filmed in the South Seas. (Elementary)		

See Sound Films, pages 71–78.

SHORT SUBJECTS

No.	Subject	No. Reels	Service Charge
25–153	**The Cat and the Kit**	1	.50
25–367	**Felix Turns the Tide**	1	1.00
25–370	**Felix—Pedigreedy**	1	1.00
25–371	**Felix Wins Out**	1	1.00
25–23	**Felix Wakes Up**	1	1.00
25–409	**Felix Grabs His Grub**	1	1.00
25–410	**Springtime (A Walt Disney cartoon)**	1	1.00
25–366	**Mickey Mouse—Op'ry House**	1	1.00
25–385	**"Our Gang" Comedy—Big Business**	2	2.00
25–386	**"Our Gang" Comedy—The Champion**	2	2.00
25–387	**Mickey Mouse—Haunted House**	1	1.00
25–264	**"Our Gang" Comedy—Fast Company**	1	1.00
25–168	**"Our Gang" Comedy—Sundown Limited**	2	2.00

No.	Subject	No. Reels	Service Charge
25–250	**Alaskan Adventures**	2	2.00
	Alaskan scenery, wild animal and native human life. Mount Katmai, "Valley of Ten Thousand Smokes." Hunting wild game with bow and arrow featuring Arthur D. Young, world's champion archer. Selected scenes from Jack Robertson film termed outstanding by National Board of Review.		
25–57	**Work Dogs of the North**	1	1.00
	Selected scenes of the beast of burden of the North. Arranged and presented by Jack Robertson. Dog teams on a trail over rough ice and steep mountains. Care and feeding of the dogs. Dog teams pulling canoes upstream in summer. Excellent Arctic scenes.		
25–254	**Great Arctic Seal Hunt**	2	2.00
	Adventures of the sealers.		
25–257	**Houses of the Arctic and the Tropics**	2	2.00
	Effects of two different environmental conditions on house types of primitive peoples.		
25–242	**Boats and Fishermen of the Arctic and the Tropics**	1	1.00
	Contrast of boat types and methods of fishing used by Central Eskimo and the Fiji Islanders.		
25–322	**Theodore Roosevelt Himself**	1	1.00
	Highlights of career. As Rough Rider, as President, in Africa, South America, Europe, and at home in Oyster Bay.		
25–321	**Franklin Delano Roosevelt Inaugural**	1	1.00
	Ride from White House to Capitol. Inaugural ceremonies. Parade.		
*25–323	**Abraham Lincoln**	2	3.00
	Reel I. (The Pioneer.) Youth, first contacts with slavery and politics, postmastership at New Salem, removal to Springfield, marriage, Lincoln-Douglas debates, nomination for President, departure for Washington. Reel II. (The Statesman.) Responsibilities, Fort Sumter, call for volunteers, war scenes, visit to field hospital, Emancipation Proclamation, Gettysburg, final campaigns, Lee's surrender, Lincoln's death.		
25–328	**The Little Indian Weaver**	1	1.00
	Story of Navajo boy introduces Indian life, lore and customs.		
25–329	**The Little Dutch Tulip Girl**	1	1.00
	Little Katrina of Volendam introduces native land, showing scenes, industries, costumes and customs.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–330	**The Little Swiss Wood Carver**	1	1.00
	Story of little Swiss mountaineer weaves in scenery, story of William Tell and other lore, occupations and native life. (See also **History**—"Chronicles of America Photoplays")		
25–402	**Down the Yukon River**	1	1.00
	Lakes and glaciers at the source of the Yukon; riding a canoe down the rapids; Miles Canyon and Whitehorse Rapids; picturesque Indian burying grounds at Nulato with little houses built over the graves; traveling by dog team over the frozen river in winter; break up of the ice in spring; fish wheels; natives catching salmon; Eskimo homes on the delta; herds of reindeer pasturing on the tundra; gold mining district near Nome; the cabin where Rex Beach wrote "The Spoilers." Arranged and produced by Jack Robertson.		
25–403	**Along the Alaskan Coast Line**	1	1.00
	Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sea-lions on the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in Southwest Alaska; volcanic area of the "Valley of Ten Thousand Smokes"; wading through mud, pumice and ashes to reach Mount Katmai. Arranged and produced by Jack Robertson.		
25–408	**Winter Olympics**	1	1.00
	Held at Lake Placid in the Adirondacks. Seventeen nations compete for titles in ice-skating races, hockey, figure skating, dog-sled racing, ski-jumping, and bobsled racing. Famous athletes such as Jaffee, St. Goddard, Ruud, Sonja Henie, and Stevens Brothers.		

FORESTRY

*25–115	**Reforestation**	1	1.00
	I. Effect of wasteful cutting. II. Tree nursery. III. School project in reforestation.		
U. S. Department of Agriculture films:			
25–510	**The Forest and Wealth**	1	.30
	A story of the forest's contribution to industry and to the comfort and wealth of mankind.		
25–505	**The Forest and Health**	1	.30
	How the forest ministers to the spiritual and physical health of mankind.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–509	**Forest Fires—or Game**	1	.30
	Unburned forests are a home for game birds and animals, and forest streams a home for fish, but forest fires and unrestricted hunting and fishing make restocking with game and fish necessary. Of interest to those who use our forests for recreation.		
25–511	**It Might Have Been You**	1	.30
	Portrays a disastrous forest fire that in 7 hours destroyed over 23,000 acres of timber and 25 ranch houses and rendered over 100 people homeless—all due to the carelessness of a ranch hand. Shows what the Forest Service is doing to prevent such a catastrophe.		
25–381	**Watching the Weather Above**	2	.30
	Aerial activity, including the Army, the Navy, the airmail service, forest-fire airplane patrols, and airplanes in insect control; importance of weather forecasting to successful aviation; how observations are made for flying-weather forecasts.		

GEOGRAPHY

AFRICA

*25–58	**People Who Live in the Desert**	1	1.00
	City and country life along Mediterranean coast of Africa. Negro dwellers of Sudan. Life on desert.		
*25–355	**Life in the Sahara**	1	1.00
	Illustrates nomadic life on the desert with scenes of camp life, a journey by caravan to the oasis market place, busy bazaars, lively bartering, a Mohammedan mosque, the return of caravans loaded with supplies.		
25–253	**The Masai of East Africa**	1	1.00
	Life of warlike, cattle-herding Masai; houses, food, military calisthenics.		
25–237	**Pygmies of Central Africa**	1	1.00
	Villages. Shooting game with poisoned arrows. Life of women. Making pottery and crude iron objects. Dance.		
25–17	**Mysterious Morocco**	1	1.00
	The tower of Hassan, Moslem ruins, Rabat. Making pottery and Moorish panels. The river Fez flowing through narrow streets. Story-telling; the street of the dyers. Table manners of the Moors. Washing raw silk in a village pool.		
25–311	**An African Adventure**	1	1.00
	A trip into jungle regions of Zambesi River. Cobra, ostrich, monkeys. Native village and its customs.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–418	**Ethiopia**	1	1.00
	Map, natives, railroad at Djibouti, Harrar Province, Ethiopian towns, weaving, pottery, Addis Ababa, street scenes, military deeds, Ethiopian cavalry and infantry, Haile Selassie on his throne.		

ASIA

25–306	**Arts and Crafts of Japan**	1	1.00
	Ancient temple bell. Landscape gardening. Costumes and hair-dress. Embroidering, making lacquer ware. Pearl culture.		
25–233	**Farmers of Formosa (Japan)**	1	1.00
	Men and women cutting cane, which is carried in ancient bamboo hods to loading place—hillside covered with tea plants—deft fingers pick tea leaves, sorting carefully, men balance large bags of tea on poles, carrying them to railway—rice fields cultivated by plows pulled by water buffaloes—ancient threshing methods, small bunches of rice beaten against trays on wooden tubs—winnowed by wind.		
*25–60	**People Who Live in Crowded Valleys (China)**	1	1.00
	Isolation by Tibet mountains and Great Wall. Life in seaport. Rural life. Canal section. Industries. Yangtze gorges. Highlands.		
25–258	**Wanderers of the Arabian Desert**	1	1.00
	Arab homes. Arabian horses. Sheep and goat herding. Loading and unloading tents. Spinning, weaving and breadmaking.		
25–368	**Benares**	1	1.00
	Native quarters: unhealthy living conditions; food markets; Sardu—Hindu beggar. River Ganges: natives bathing in sacred waters; pilgrims; burning ghats.		
25–252	**The Mongols of Central Asia**	1	1.00
	By member of Roy Chapman Andrews Expedition. Transportation of families and household goods by yak, horse, and camel. Characteristics of Mongol. Dwellings, games, customs and clothes.		
25–425	**Bali**	1	1.00
	Map showing location of island—rice fields—cultivation by hand, planting, harvesting—raising ducks, important food—fighting gamecocks—fat pigs as street cleaners—native babies—pagodas—temples—Brahmin priest dispersing evil spirits—native dances with exotic costumes accompanied by Balinese orchestra.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–188	**An East Indian Island**	1	1.00
	Bali. I. Rural scenes. II. Handicrafts and markets. III. Home life. IV. Native customs.		
*25–198	**The Philippine Islands**	1	1.00
	I. In Manila. II. Sugar industry. III. Cocoanuts. IV. Rice: cutting, threshing, hulling, polishing. V. Hemp.		
25–244	**A Bit of Life in Java**	1	1.00
	Scenery. Borobodur. Cities. Costumes and customs. Transportation and marketing facilities.		
25–240	**The Battak of Sumatra**	1	1.00
	Peoples of northwestern Sumatra. Scenery. Houses, Primitive agricultural methods.		
25–239	**The Malays of Sumatra**	1	1.00
	Trading with neighboring islands, cultivating "wet rice." Grinding meal. Houses. Marriage ceremony.		

EUROPE

See "**Touring Germany Today,**" page 78.

*25–59	**People Who Live in the Mountains (Switzerland)**	1	1.00
	Change of environment and occupations with increasing altitude. From lowlands to highest mountains in Switzerland.		
25–330	**The Little Swiss Wood Carver**	1	1.00
	Story of little Swiss mountaineer weaves in scenery, story of William Tell and other lore, occupations and native life.		
*25–62	**People Who Live by the Sea (Mediterranean)**	1	1.00
	Ancient and modern Mediterranean ports and trade routes.		
25–331	**Palma de Majorca**	1	1.00
	Map showing location of Balearic Islands, view of bay surrounding Palma de Majorca—town patio showing variety of types—pretty peasant girls wearing "rebozillos," a net headdress—in the country we pass carts pulled by burros and occupied by holy men, hearty looking and bearded, topping their clerical robes with native straw hats—old Moorish watch tower and ancient gnarled olive trees.		
*25–64	**People Who Live Through Industry (Germany)**	1	1.00
	Elements of German industrial life in Rhine Land: mining, transportation, manufacturing.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–170	**Denmark**	1	1.00
	Danish agriculture; Danish industries; manufacture of matches, chocolate, porcelain; home of Hans Christian Andersen in Odense; Copenhagen—the capital: Christiansborg Palace, Rosenborg Palace, The Stock Exchange, The Town Hall and Public Market, Tivoli Gardens; Kronborg Castle at Elsinore—scene of Shakespeare's Hamlet; a modern public school; Esbjerg—largest fishing harbor.		
25–476	**Finland**	1	1.00
	Helsingfors, modern streets and parks, St. Nicholas Church, modernistic architecture, public buildings, market square, university, Finland's forests, wood pulp manufacture, swift waters, tobacco factory, ancestral farms, churchgoers, Ikka, dairies, canals, fishermen, Finland's athletes, winter sports.		
25–305	**Holland**	1	1.00
	Cities, industries, sports. Rotterdam. Delft, The Hague, Schweninger, windmills and canals. Tulip growing, fishing, dairying.		
25–329	**The Little Dutch Tulip Girl**	1	1.00
	Little Katrina of Volendam introduces native land, showing scenes, industries, costumes and customs.		
*25–293	**Peasant Life in Hungary**	1	1.00
	Tending flocks, tilling fields, and doing craft work. Market day. Peasant wedding.		
25–238	**The Wee Scotch Piper**	1	1.00
	Story of Ian, son of Scotch shepherd. Woven in are scenes from Highlands, Edinburgh, Loch Lomond, and other parts of Scotland. Robert Bruce legend introduced.		
25–383	**Sleepy Old Tuscany**	1	1.00
	The pastoral beauty and quiet peace of village life in the rural district of Tuscany. The contrast of oxcart and cathedral. Peasants working in the vineyards. Hemp-making in Orvieto. Watch-towers in San Gimignano. Ancient methods of agriculture.		
25–265	**In Old Granada**	1	1.00
	Statue of Isabella and Columbus—River Darro—gypsies living in primitive caves—interior of a private patio with its shrine and flower-covered balconies—the Alhambra—Court of Myrtles, the long pool surrounded by mosaic-covered walls—Court of Lyons with queerly carved creatures supporting fountain.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–295	**Toledo and Segovia**	1	1.00

Ancient walls, topped with many turrets, surround Toledo—pass through Moorish gate and see royal Alcazar, tall, spired cathedrals, narrow streets with overhanging balconies—in Segovia towers the ancient Roman aqueduct, hand-built stone arches—patient peasant drives his herd of sheep through town.

25–405	**Austria**	1	1.00

Peaceful rural districts; ornately embroidered native costumes; studies in peasant types; oxen-drawn carts; the market place; peasants dancing and singing; over the border into Hungary; Vienna.

25–406	**Serbia**	1	1.00

Typical Serbian farms and peasants; cobbled streets of Belgrade; belles of a Serbian village; peasants spinning while standing watch over their herds; gay fellows of Montenegro; pumping water by hand for their cattle; Serbian footwear.

25–407	**Bucharest**	1	1.00

Picturesque scenes in Roumania's capital; horse-drawn, open-air street cars; a lemonade peddler jingling his bells; society prefers "fiacres" to motor cars; national costumes are well displayed in the market place on a busy Saturday.

25–477	**London**	1	1.00

Docks; the Tower; Tower Bridge; traffic; commuters; Piccadilly; London's workers; Covent Garden; Billingsgate; parks—Kensington; Westminster; Houses of Parliament—Big Ben; the Prime Minister's residence; the British Museum; changing the guards; night.

NORTH AMERICA

*25–56	**People Who Live in the Arctic**	1	1.00

Icebergs. Eskimos pulling a whale ashore for food and utensils. Tundra. Eskimo children at play. Summer house. Building frame of boat from bone. Skinning seal. Preserving meat. Caribou. Family life. Approach of winter. Gathering fuel. Dog teams. Seals on ice floes. Grinding ice packs. Seal hunt. Walrus. Rounding up caribou herds. Building ice fence and igloos. Meal time. An Arctic storm.

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* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–57	**Work Dogs of the North**	1	1.00
	Selected scenes of the beast of burden of the North. Arranged and presented by Jack Robertson. Dog teams on a trail over rough ice and steep mountains. Care and feeding of the dogs. Dog teams pulling canoes upstream in summer. Excellent Arctic scenes.		
25–412	**Alaska**	1	.50
	Wrangell—Petersbury—Taku Glacier—Skagway—White Pass—hydraulic mining at Atlin.		
25–413	**Quebec Byways**	1	.50
	Chateau Frontenac—City and waterfront—old market—Avenue des Brayes—plains of Abraham—old Citadel St. Louis gate—old hamlet of St. Gregoire—life on Isle d'Orleans.		
25–414	**St. Lawrence Seaway**	1	.50
	Trip from Montreal to the Atlantic. Industrial center at Trois Rivieres—Quebec—old fortress "Chateau Frontenac"—Isle of Orleans showing ancient methods of farming and baking of bread in out-door ovens—Ste. Anne de Beaupre, miracle shrine—Riviere du Loup—Trois Pistoles—Father Point.		
25–415	**Through Canada's Rockies**	1	.50
	A 600-mile trip through Canada's mountains—Banff—Valley of the Bow—Spray River—Lake Louise—the Great Divide—Kicking Horse River—Yoho Valley—Takakkaw Falls (twice heighth of Niagara)—Emerald Lake—Shuswap Lake—a group of ten or more snow-clad mountains—Vancouver.		
25–396	**Where Winter Sport Is King**	1	.50
	Old city of Quebec in winter. Sleighing, triple chute tobogganing, snowshoeing, ice-skating, skiing, skijoring races, ski-jumping, dog-sled racing.		
25–397	**Trapping Tuna**	1	.50
	Scenes of one of Canada's prolific fisheries. How giant tuna fish are caught along the shores of Nova Scotia and prepared for market.		
25–398	**Making Money**	1	.50
	A film trip through the Royal Mint at Ottowa, the capital of Canada, showing the various processes in the making of Canada's coinage.		

No.	Subject	No. Reels	Service Charge
25–399	**The City of Loyalists**	1	.50
	A scenic travelogue of Quebec, one of Canada's most historic and interesting cities and one of the Dominion's greatest maritime ports. Views contained show the world famous Reversing Falls, the landing place of the United Empire Loyalists, and other scenic and historical features.		
25–389	**Winter Witchery of Niagara**	¾	.50
	Famous as one of the world's greatest scenic spectacles, Niagara in winter dress is incomparably beautiful. This film depicts the glories of the great cataract under the Frost King's magic mantle when its picturesque environs are transformed by frozen spray into weirdly beautiful and fantastically shaped ice formations.		
25–391	**Falling Waters of Canada**	1	.50
	An exceptionally beautiful scenic film depicting many of Canada's most picturesque and spectacular waterfalls with descriptive poetic subtitles selected from the works of famous nature poets.		
25–392	**The River of Deep Waters**	1	.50
	The name Saguenay is an Indian term for deep waters and the famous Quebec stream that bears this name amply justifies its appellation. This film depicts the steamer trip from Quebec to quaint Chicoutimi and offers glimpses of Murray Bay, Tadousac, the famous Capes, and other features that have made this river famous for its historic associations and scenery.		
25–393	**Lumbering in British Columbia**	1	.50
	British Columbia produces many million feet of lumber annually and one-third of the total output of Canada. Immense forests contain some of the finest timber in the world today. This educational film depicts lumbering operations from the felling of the trees to the export shipping of the finished product.		
25–394	**Communing with the Heavens**	1	.50
	A film trip through the Dominion Observatory at Ottawa, Canada, giving a clear insight into the work of the astronomy, seismography and other scientific undertakings.		
25–395	**Where Snowtime is Joytime**	1	.50
	Skiing—that exhilarating winter sport introduced to the world by Norsemen—has become probably Canada's most universally popular winter pastime. The joys and thrills of this form of winter sport in the snow-clad Gatineau Hills adjacent to Ottawa—Canada's Capital.		

No.	Subject	No. Reels	Service Charge
25–257	**Houses of the Arctic and the Tropics**	2	2.00
	Effects of two different environmental conditions on house types of primitive peoples.		
25–242	**Boats and Fishermen of the Arctic and the Tropics**	1	1.00
	Contrast of boat types and methods of fishing used by Central Eskimo and the Fiji Islanders.		
*25–289	**Alaska**	1	1.00
	I. Glaciers and gold. II. Salmon, seals and whales. III. Native life. IV. American settlers.		
25–250	**Alaskan Adventures**	2	2.00
	Alaskan scenery, wild animal and native human life. Mount Katmai, "Valley of Ten Thousand Smokes." Hunting wild game with bow and arrow featuring Arthur D. Young, world's champion archer. Selected scenes from Jack Robertson film termed outstanding by National Board of Review.		
25–402	**Down the Yukon River**	1	1.00
	Lakes and glaciers at the source of the Yukon; riding a canoe down the rapids; Miles Canyon and Whitehorse Rapids; picturesque Indian burying grounds at Nulato with little houses built over the graves; traveling by dog team over the frozen river in winter; break up of the ice in spring; fish wheels; natives catching salmon; Eskimo homes on the delta; herds of reindeer pasturing on the tundra; gold mining district near Nome; the cabin where Rex Beach wrote "The Spoilers." Arranged and produced by Jack Robertson.		
25–403	**Along the Alaskan Coast Line**	1	1.00
	Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sea-lions on the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in Southwest Alaska; volcanic area of the "Valley of Ten Thousand Smokes"; wading through mud, pumice and ashes to reach Mount Katmai. Arranged and produced by Jack Robertson.		
25–478	**Alaskan Interlude**	3	1.50
	I. Perils of the Gold Rush—snow, rivers, glaciers; a cruise ship today; deck games and scenery; Vancouver; Gardner Canal; Prince Rupert. II. Ketchikan; Wrangell; Sitka; totems; Taku Glacier; Juneau; Mendenhall Glacier; Lynn Canal; Skagway. III. To White Pass Summit by train; steamer to Lake Tagish; White Horse; the land of gold.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–113	**Panama Canal**	1	1.00
	I. Location and sanitation of Canal Zone. II. Building canal. III. Trip through canal.		
25–149	**Panama Canal**	1	.50
	Steps in building canal. The completed canal.		
*25–183	**From the Bahamas to Jamaica**	1	1.00
	I. Locating "American Mediterranean." II. Nassau and sponge industry. III. Havana. Sugar cane and tobacco. IV. Kingston and Jamaica—life and industries.		
*25–184	**From Haiti to Trinidad**	1	1.00
	When used with 25–183 gives complete picture of West Indies. I. Haiti and coffee industry. II. Porto Rico, San Juan. III. The Lesser Antilles—Martinique. Barbados. IV. Trinidad—asphalt and sugar industries.		
*25–185	**Central America**	1	1.00
	Peoples, cities, industries, resources. I. Urban and rural scenes. II. Mahogany lumbering. III. Banana growing. IV. Coffee and cocoa.		
25–165	**Banana Land**	1	.50
	Banana growing and shipping in Tela.		
25–131	**Cuba—Island of Sugar**	1	.50
	Story of sugar. Havana.		
*25–195	**Mexico**	1	1.00
	I. Location and relief: effect of surface structure and geographical location on climate and vegetation. II. Hot lowlands: tropical products and oil. III. Warm lands: life on hacienda compared with that in provincial town. IV. Cool lands: silver mining, modern power house, floating gardens, Mexico City.		
*25–288	**Pueblo Dwellers**	1	1.00
	Home life. Indian village. Planting corn, preparing tortillas, baking, basket-weaving, pottery-making. Ceremonial dances. Government Indian school.		
25–328	**The Little Indian Weaver**	1	1.00
	Story of Navajo boy introduces Indian life, lore and customs.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–351	**Santa Fe—The City Different**	1	1.00
	Monuments of Kit Carson and Franciscan friars—typical examples of pueblo architecture—some original buildings, the Palace 500 years old—annual fiesta with parade of Indians, conquistadores, Franciscan friars, covered wagons and stage coaches—Chief Narajo leads in tribal dances to tom-tom music.		
25–162	**The Electric Ship**	2	1.00
	Trip from New York to San Francisco on S. S. Virginia. Havana. Panama Canal. Up western coast.		
25–182	**Behind the Cup**	2	Free
	Coffee industry in Guatemala.		
*25–202	**Washington—The Capital City**	1	1.00
	I. The Capitol area: air scenes of Capitol, Library, Pennsylvania Avenue, Columbus Memorial. II. White House section: Treasury Building, State, War and Navy Building, White House, Ellipse, Pan-American Union Building. III. The Mall: Botanic Gardens, Smithsonian Institution, National Museum, Washington Monument, Lincoln Memorial, Tidal Basin, Potomac River.		
*25–186	**The Boone Trail**	1	1.00
	I. The Shenandoah—fields, orchards, forests, livestock. II. Cumberland Gap—resources, natives at primitive industries. III. Blue-grass region of Kentucky—tobacco, hemp, livestock.		
25–133	**Land of Cotton**	1	.50
	Growing, warehousing, and weaving.		
*25–292	**The Old South**	1	1.00
	I. Agriculture: tobacco, sugar, rice, and cotton. II. Pioneer life. III. Early methods of transportation. IV. Trip on Mississippi River steamboat. V. Plantation life.		
*25–359	**The New South**	1	1.00
	Traces the rapid progress of the New South: its agricultural products; raw materials. Birmingham, Mobile, New Orleans and Miami are shown.		
*25–197	**Overland to California**	1	1.00
	I. A natural highway: evolution from pioneer days to present air routes. II. Through Rockies. III. Across Great Basin: Utah and Salt Lake City. IV. From Great Basin to Pacific: through Sierra Nevadas and Sacramento Valley to San Francisco.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–43	**Missions of California**	1	1.00
	The missions of California and when they were founded. Old ruins and rebuilt missions.		
25–349	**Death Valley**	1	1.00
	Furnace Creek Inn; Furnace Creek Ranch; Old Harmony Borax Mill; creosote bush in bloom; mushroom rock—a queer lava formation; Golden Canyon; Devil's Golf Course; Ubehebe Crater; Giant Mesquites; Bottle House; Titus Canyon; Devil's Corn Field; Death Valley's Sahara.		
25–417	**Redwood Empire Travel Thrills**	2	Free
	Scenes of interest in Redwood Empire—outdoor recreation haunts—swimming—fishing—boating in ocean and mountain streams—comprises San Francisco, Marin, Sonoma, Napa, Lake, Mendocino, Humboldt, Del Norte and Josephine (Oregon) counties.		
*25–190	**The Golden Gate**	1	1.00
	I. San Francisco Bay region: Golden Gate, piers and docks, ferries, Oakland, University of California. II. San Francisco: cable cars, Chinatown, residential section, Golden Gate Park. III. Pacific trade of San Francisco: scenes at waterfront, cargoes, diagram of various shipping lanes.		
*25–114	**The Arid Southwest**	1	1.00
	I. Plant life of Arizona desert. II. Animal life. III. Nomadic human life.		
*25–356	**The Oregon Country**	1	1.00
	I. Trails to Oregon. II. Columbia Plateau. III. The Lower Columbia River. IV. The Puget Sound Area.		
25–348	**Tame Wild Life of Yosemite**	1	1.00
	Golden Mantles ground squirrel; California ground squirrel; Western tanager; mule deer; mule deer fawn; Sierra grouse; San Joaquin Valley elk; forest of antlers; Blue-fronted jay; young black-headed grossbeaks and robin; young Sierra chickaree.		
25–350	**Falling Waters of Yosemite**	1	1.00
	Cascade Fall, Ribbon Fall, Bridal Veil Fall, Sentinel Falls, Yosemite Falls, Indian Creek Fall, Illilouette Fall, Vernal and Nevada Falls, "wheel" of water under bridge near Nevada Fall, waterwheels in canyon of Tuolumne; snow scenes.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–155	**Glimpses of the Yosemite**	1	1.00
	Principal falls and features of Yosemite Valley. Big Oak Flat Road. Tuolumne Big Trees. Tenaya Lake. Morro Lake. Wawona Big Tree.		
25–156	**Over the Tioga Pass—Six-Day Saddle Trip**	1	1.00
	From Yosemite to Lake Tahoe over Tioga Pass.		
25–157	**Winter in Yosemite**	1	1.00
	Tobogganning, riding dog sleds, figure skating on ice, hockey games, ski-joring races, "ash-can" slides. Yosemite's Ice-Skating Carnival.		
25–479	**Yosemite in Winter**	2	1.50
	I. A beautiful setting for winter sports; "snow go"; outdoor ice rink; ice carnival; toboggans; ski-joring; dog sledges; sleighing. II. The ski slopes at Badger Pass, scenic views; slow motion shows correct form in skiing; an international ski champion; beginners on skis; map of ski hills; skiers; evening fires.		
*25–360	**Glacier National Park**	¾	1.00
	I. Physical features. II. Plant and animal life. III. Indians. IV. A national playground.		
25–347	**Bryce Canyon**	½	.50
	Lacework of stone; wall of windows; The Cathedral.		
*25–352	**Yellowstone National Park**	1	1.00
	I. Physical features. II. Birds and beasts. III. Administration of Park.		
25–508	**Roads in Our National Parks**	1	.30
	A panorama of the service performed by the Bureau of Public Roads in construction of modern highways in our western national parks. The scenic wonders of Yosemite, Glacier, Rocky Mountain, Mount Rainier, Mount Lassen, and Mesa Verde National Parks. (U.S. D.A.)		
25–515	**Regulated Deer Hunting**	2	.30
	Shows damage done by deer when they become too numerous, and how they are removed by trapping, artificial rearing and shipping of fawns, and by regulated hunting in the Pisgah National Forest and Game Preserve in North Carolina. (U.S.D.A.)		

* Film lesson available. See introductory paragraph on page [v].

OCEANIA

No.	Subject	No. Reels	Service Charge
*25–191	**Hawaiian Islands**	1	1.00
	I. Honolulu and environs: Waikiki and Diamond Head, harbor, residential section, foreign sections. II. Pineapple industry. III. Native life. IV. Sugar industry. V. Kilauea.		
25–257	**Houses of the Arctic and the Tropics**	2	2.00
	Effects of two different environmental conditions on house types of primitive peoples.		
25–242	**Boats and Fishermen of the Arctic and the Tropics**	1	1.00
	Contrast of boat types and methods of fishing used by Central Eskimo and Fiji Islanders.		
25–232	**Cane Fields of Calamba (Philippines)**	1	1.00
	Colorful market place, overhung with many thatch-roofed balconies—the patient peasant is seen planting sugar cane—large caribao pull plows—native men trim leaves from cane with swift strokes then cut and load stalks on trucks and wagons—cane crushed and rolled to extract sweetness by new and old methods—natives make brown sugar molds.		

SOUTH AMERICA

*25–201	**The Continent of South America**	1	1.00
	I. Position. II. Andean Highlands. III. Eastern highlands and lowlands: Brazilian Highlands and La Plata Basin, Guiana Highlands and Orinoco Basin, Amazon Basin.		
*25–363	**Brazil—Amazonian Lowlands**	1	1.00
	I. Land and life: drainage basin of Amazon River, wild life, native Indians, jungle products. II. Cities: Manáos, Santarem, Belem (Pará).		
*25–364	**Brazil—Eastern Highlands**	1	1.00
	Outlines the principal agricultural and industrial products of eastern Brazil. Shows São Salvador, São Paulo and Santos, the coffee centers, and Rio de Janeiro, the capital.		
*25–287	**Chile**	1	1.00
	I. Scattered settlements, Indian life, lumbering and sheep raising in South Chile. II. Copper and nitrate industries of North Chile. III. Agriculture. IV. Santiago, Valparaiso, and Trans-Andean railroad.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–291	**Peru**	1	1.00
	Natural resources, transportation difficulties, and living conditions. I. Coastal lowlands. II. Andean Highlands. III. Interior lowlands. Lima and seaport cities. Indian life and Inca ruins.		
*25–290	**Bolivia**	1	1.00
	I. Physical Features. II. Rural life. III. Mines and cities.		
*25–61	**People Who Live on a Great Plain (Argentine)**	1	1.00
	Ranching methods, equipment, stock, cattle and sheep ranching, wheat and corn farming. Buenos Aires.		
*25–362	**Argentina**	1	1.00
	I. Patagonia. II. Arid Uplands. III. The Pampas.		

HISTORY

CHRONICLES OF AMERICA PHOTOPLAYS

The Chronicles of America Photoplays, produced under the direction of the Yale University Press Film Service, depict events of outstanding importance in American history from the voyage of Columbus to the close of the Civil War.

Painstaking work characterized every step in producing the pictures. Not only each incident and action, but every character and costume, setting, structure, and implement, every detail of custom and habit, represents careful study by specialists.

The series is designed to fit in with a general course in American history up to the close of the Civil War, and the length of each individual picture accords with a classroom period.

Teachers' aids in the form of historical outlines, complete title sheets and references for each picture will be sent, upon request, to those using the Chronicles of America Photoplays.

No.	Subject	No. Reels	Rental Price
25–1	**Columbus**	4	7.50
	Career of Columbus from 1485–1492. Betrayed by King John of Portugal, Columbus finally gains support of Queen Isabella, sails from Palos, and, after many dangers, lands on Watling Island.		
25–2	**Jamestown**	4	7.50
	Faithful representation of Jamestown in 1612. Daily life. Indian menace. Pocahontas story.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Rental Price
25–3	**The Pilgrims**	3	7.50
	Separatists at Scrooby, England. Migration to Holland. Voyage of Mayflower and landing on Plymouth Rock. Hardships of first winter. Incidents revealing devotion to ideal of religious freedom.		
25–4	**The Puritans**	3	7.50
	Economic background of Massachussetts Bay Colony. Life in 1630 in New England contrasted with English court life. Political motives behind Thomas Morton's efforts to bring about revocation of charter. Rise of dissension. Departure of Roger Williams. Leadership of Governor Winthrop.		
25–5	**Peter Stuyvesant**	3	7.50
	Outstanding events in new Amsterdam from 1653 to 1664. Life under Stuyvesant's rule. Preparations for battle with English, followed by bloodless surrender by Dutch.		
25–6	**The Gateway to the West**	3	7.50
	Story of Washington's experiences in 1753 in connection with conflict between English and French for territory west of Alleghenies. Life in old Virginia. Washington mission to protect French occupation of Ohio Valley. Battle of "Fort Necessity."		
25–7	**Wolfe and Montcalm**	3	7.50
	Bitter Franco-English struggle culminating in fall of Quebec in 1759. European political situation. Situation in New France. Military strategy of Wolfe. Battle on Plains of Abraham.		
25–8	**The Eve of the Revolution**	3	7.50
	Significant incidents of 1765–1775. Scenes incident to Stamp Act. Boston Massacre. Boston Tea Party. Salem Assembly. Rides of Revere and Dawes. Clashes at Lexington and Concord.		
25–9	**The Declaration of Independence**	3	7.50
	Struggles to bring about vote for independence. Influence of pamphleteers. Thomas Paine. Gatherings. Proceedings of Second Continental Congress on July 2 and 4, 1776.		
25–10	**Yorktown**	3	7.50
	War between January and October 1781. Hardships of American troops. International aspects of campaign of 1781. Aid given by French. Surrender of Cornwallis.		
25–11	**Vincennes**	3	7.50
	Capture of Vincennes by Clark in 1799, after difficult march through wilderness.		

No.	Subject	No. Reels	Rental Price
25–12	**Daniel Boone**	3	7.50
	Pioneer spirit as typified by Daniel Boone. After founding Boonesboro, Boone is captured by Indians, learns of threatened attack by French and Indians on Boonesboro, and escapes in time to save the settlement.		
25–13	**The Frontier Woman**	3	7.50
	Heroism demanded of the frontier woman is exemplified by story of Wautauga settlement in Tennessee Mountains in 1780. Men leave to oppose English expedition, in face of threatened attack on settlement by Indians. Women left with boys and old men to ward off attack.		
25–14	**Alexander Hamilton**	3	7.50
	Hamilton's work during crucial post-war period in stabilizing currency and founding national financial system. Seen first as aide to General Washington, then at his inauguration, Hamilton becomes Secretary of the Treasury. The Whisky Rebellion and other problems.		
25–15	**Dixie**	3	7.50
	Story of civilian South throughout Civil War, revealing heroism of women and attitude of slaves. Experiences of typical Southern family.		
*25–228	**Life of George Washington, Conquering the Wilderness**	1	1.50
*25–229	**Life of George Washington, Uniting the Colonies**	1	1.50
*25–230	**Life of George Washington, Winning Independence**	1	1.50
*25–231	**Life of George Washington, Building the Nation**	1	1.50
	The above four films were made by Eastman Teaching Films, Inc., with the coöperation of George Washington Bicentennial Commission. Each reel is a unit in itself.		
25–321	**Franklin Delano Roosevelt Inaugural**	1	1.00
	Ride from White House to Capitol. Inaugural ceremonies. Parade.		
25–322	**Theodore Roosevelt Himself**	1	1.00
	Highlights of career. As Rough Rider, as President, in Africa, South America, Europe, and at home in Oyster Bay.		
25–469	**Theodore Roosevelt (our 26th President)**	2	2.00
	New York in the 70's; horsecars; photograph of Theodore the child; dramatization of his school days, sickly youth, outdoor bravery; marriage; the Rough Riders; capturing a hill; as President; in Africa.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Rental Price
*25–323	**Abraham Lincoln**	2	3.00
	I. (The Pioneer) Youth, first contacts with slavery and politics, postmastership at New Salem, removal to Springfield, marriage, Lincoln-Douglas debates, nomination for President, departure for Washington. II. (The Statesman) Responsibilities, Fort Sumter, call for volunteers, war scenes, visit to field hospital, Emancipation Proclamation, Gettysburg, final campaigns, Lee's surrender, Lincoln's death.		
25–128	**Ride of Paul Revere, The**	1	1.00
	Taken on actual location. Captions are lines of Longfellow's poem.		
*25–186	**The Boone Trail**	1	1.00
	I. Shenandoah—fields, orchards, forests, livestock. II. Cumberland Gap—Minerals; forests; primitive life. III. Blue-grass region of Kentucky—tobacco, hemp, livestock.		
*25–197	**Overland to California**	1	1.00
	I. A natural highway: evolution from pioneer days to present air routes. II. Through Rockies. III. Across Great Basin: Utah and Salt Lake City. IV. From Great Basin to Pacific: through Sierra Nevadas and Sacramento Valley to San Francisco.		
25–43	**Missions of California**	1	1.00
	The missions of California and when they were founded. Old ruins and rebuilt missions.		
25–328	**The Little Indian Weaver**	1	1.00
	Story of Navajo boy introduces Indian life, lore and customs.		
25–330	**The Little Swiss Wood Carver**	1	1.00
	Story of little Swiss mountaineer weaves in scenery, story of William Tell and other lore, occupations and native life.		
*25–62	**People Who Live by the Sea**	1	1.00
	Ancient and modern ports and trade routes.		
*25–292	**The Old South**	1	1.00
	I. Agriculture: tobacco, sugar, rice, and cotton. II. Pioneer life. III. Early methods of transportation. IV. Trip on Mississippi River steamboat. V. Plantation life.		
*25–359	**The New South**	1	1.00
	Traces the rapid progress of the New South: its agricultural products; raw materials. Birmingham, Mobile, New Orleans and Miami are shown.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Rental Price
25–399	**The City of Loyalists**	1	.50
	A scenic travelogue of Quebec, one of Canada's most historic and interesting cities and one of the Dominion's greatest maritime ports. Views contained show the world famous Reversing Falls, the landing place of the United Empire Loyalists, and other scenic and historical features.		
25–392	**The River of Deep Waters**	1	.50
	The name Saguenay is an Indian term for deep waters and the famous Quebec stream that bears this name amply justifies its appellation. This film depicts the steamer trip from Quebec to quaint Chicoutimi and offers glimpses of Murray Bay, Tadousac, the famous Capes, and other features that have made this river famous for its historic associations and scenery.		

The following films contain pictures of historic spots and incidents, usually connected with the particular personage.

*25–38	**George Washington**	½	.50
*25–39	**Benjamin Franklin**	1	.50
*25–40	**Thomas Jefferson**	1	.50
*25–41	**Alexander Hamilton**	1	.50
*25–42	**Daniel Webster**	1	.50

HOME ECONOMICS

(See pages 38–50)

HYGIENE AND PHYSIOLOGY

DISEASE

No.	Subject	No. Reels	Service Charge
*25–357	**Tuberculosis and How It May Be Avoided**	1	1.00
	I. The Tubercle Bacillus. II. Examination for early signs of Tuberculosis. III. Preventing the development of Tuberculosis.		

PUBLIC HEALTH

*25–83	**Armies of Health and Disease**	1	1.00
	Growth of germs. Louis Pasteur and experiments. Bacteria. Pasteurization. Causes of disease. Immunization through inoculation. Preparation of serums.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–84	**Disease Carriers** Breeding places and life cycle of flies and mosquitoes. Methods of destroying. Dangers of rat pest. Contaminated water.	1	1.00
*25–354	**The House Fly** I. Life history of fly. II. Structure of adult fly. III. Danger to health.	1	1.00
*25–278	**Bacteria** I. Making culture media. II. Growing bacteria. III. Examining bacteria. (Upper grades and high schools.)	1	1.00
*25–111	**New York Water Supply** I. New York City and Harbor. II. Catskill water supply. III. Carrying water to New York. IV. Distributing.	1	1.00
*25–248	**Drinking Health** Necessity of exercising care in protecting source of supply of pure water. Unhygienic and hygienic methods of distribution.	2	1.00
*25–358	**Sewage Disposal** I. Direct disposal into the ocean. II. Sewage purification by Imhoff tank and sprinkling filter. III. Purification by sand filtration.	1	1.00
*25–122	**Life History of the Mosquito (Aedes Aegypti)** Carrier of yellow fever virus. I. Eggs, hatching of larva. II. Larva, with transformation to pupa. III. Pupa with emergence of mosquito. IV. Adult mosquitoes, male and female.	1	1.00
*25–91	**Little Brothers and Sisters** Child welfare. Care of infants and young children. Importance of bathing and care of eyes. Play, exercise, rest, and clothing. Sterilization of food. Value of examinations.	1	1.00
*25–280	**First Aid: Life Saving and Resuscitation** I. Life Saving. II. Prone Pressure method of artificial respiration. (Junior and Senior High Schools.)	1	1.00
*25–281	**First Aid: Control of Bleeding** Methods of control of arterial and venous hemorrhage in various areas of body. (Junior and Senior High Schools.)	¾	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–282	**First Aid: Carrying the Injured, Care of Minor Wounds**	1	.75
	I. Making and using of stretchers in emergencies, methods of carrying persons without stretchers. II. Importance of immediate care for slightest wound. Proper method of applying sterile dressings.		
25–505	**The Forest and Health**	1	.30
	How the forest ministers to the spiritual and physical health of mankind. (U.S.D.A.)		
*25–283	**Fire Safety**	1	1.00
	I. Fire losses. II. Preventing fires. III. What to do in case of fire. IV. Fire prevention by school children.		
*25–270	**Fire Protection**	1	1.00
	I. Fire extinguishers. II. Fire Department in action. III. Training of firemen. IV. Training in fire safety, Schaefer method of artificial respiration.		

PERSONAL HYGIENE

*25–85	**General Health Habits**	1	1.00
	Value of fresh air, outdoor life, proper exercise, cleanliness, correct food, frequent bathing, and recreation.		
*25–86	**Food**	1	1.00
	I. Nutrition, selection of proper food. II. Milk. III. Digestive system.		
*25–205	**Posture**	1	1.00
	I. Standing position. II. Sitting posture. III. Effects of good and bad posture on internal organs, on general external appearance.		
*25–327	**The Feet**	1	1.00
	Prepared in coöperation with American Posture League. Structure, best mechanical use of foot. Points of good shoe, harmful effect of improper shoes.		
*25–271	**Care of the Teeth**	1	1.00
	Parts of a tooth, prophylactic treatment, progress of decay, effects of bad habits and disease, rules for systematic home care and brushing.		
25–263	**Dental Nutrition**	2	1.00
	Relation of diet to health of teeth. Recent experiments of noted scientists. Results of diet deficiencies. Correct diet.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–90	**Eyesight**	1	1.00
	Comparison of eye and lens of camera. Diagram of eye. Function of each part. How images are carried to brain. Correcting defects with glasses.		

PHYSIOLOGY

*25–82	**Man**	1	1.00
	Amoeba, lowest form of life. Man, the highest. Diagram showing the heart, lungs, alimentary canal, stomach, nervous system, eye, ear, etc. How connected with brain.		
*25–158	**Living Cells**	1	1.00
	I. Single-celled organisms: amoeba, paramecium. II. Many-celled organism: Hydra, flatworm. III. Tissue cells. IV. Cell division.		
*25–203	**Body Framework**	1	1.00
	I. Uses. II. Structure. III. Growth and repair. IV. In action.		
*25–204	**Muscles**	1	1.00
	I. Structure: differences between voluntary and involuntary muscles. II. Properties. III. In action.		
*25–90	**Eyesight**	1	1.00
	Comparison of eye and lens of camera. Diagram of eye. Function of each part. How images are carried to brain. Correcting defects with glasses.		
25–338	**How We Hear**	½	.50
	Animated drawings and photography explain functions of outer, middle, and inner ear, and how sound waves are conveyed to brain.		
25–337	**The Human Voice**	¾	.75
	Physiological functions of nasal passage, wind-pipe, gullet, epiglottis, vocal cords, etc., in producing sound.		
*25–206	**The Skin**	1	1.00
	I. Skin of animals: comparing human skin with skins of fish, crocodile, ostrich, elephant, and bear. II. Structure. III. Hair and nails. IV. Care of skin.		
25–339	**How We Breathe**	¾	.75
	Animated drawings show formation of human lungs and how they function in purifying blood.		
*25–159	**Breathing**	1	1.00
	I. Mechanics of breathing. II. The air passages. III. Structure and function of lungs.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–127	**Blood, The**	1	1.00
	I. Plasma. Proteins and salts. II. Blood cells, white and red. Hemoglobin. Platelets. (Junior High and higher grades.)		
25–336	**Blood Vessels and Their Functions**	1	1.50
	Vascular system illustrated by actual dissections of main blood vessels and by animated drawings.		
25–335	**Heart and How It Works**	1	1.50
	Dissections of human heart, demonstrating construction of chambers, partitions, valves, and cords; valvular action.		
*25–121	**Circulation**	1	1.00
	I. Heart. II. Pulmonary circulation. III. Outflow of blood from heart to body. IV. Return flow from body to heart. (Junior High and higher grades.)		
*25–160	**Circulatory Control**	1	1.00
	Nature of blood flow and control by vasomotor system. I. Arteries. II. Veins. III. Vasomotor control.		
*25–276	**Digestion**	1	1.00
	Detail of structures in digestive tract, functions. I. Mouth and esophagus. II. Stomach. III. Intestines.		
25–334	**Respiratory and Urinary Systems**	1	1.50
	Respiratory System.—Animated drawings show the location and inter-relation of the respiratory organs. Dissection and demonstration of the lungs. The passage of the air through the lungs and its distribution by the blood to all parts of the body. Urinary System.—The entire urinary system is dissected and assembled outside the body so that it can be studied; the relation of the urinary tract to the circulatory and other systems.		

INDUSTRY AND BUSINESS

(See also page 4)

CLOTHING

25–133	**The Land of Cotton**	1	.50
	Growing, warehousing, and weaving.		
*25–154	**Cotton—From Seed to Cloth**	2	1.00
	Growing, ginning, manufacturing into cloth. Film lesson by Department of Geography, Harvard University.		
*25–161	**Range Sheep**	1	1.00
	I. Herding in spring. II. Shearing in spring. III. Shipping mutton in fall. IV. Care in winter.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–136	**Woolen Yarn**	1	.50
	From sheep to finished product. History of weaving.		
25–18	**Romance of Rayon**	2	1.00
	Manufacture of artificial silk.		
25–126	**Story of Leather**	2	1.00
	Removing hides. Curing. Tanning. Different uses.		
25–319	**Romance of Shoemaking**	2	Free
	Development in methods of making shoes up to latest machine manufacture.		
25–262	**Modern Shoemaking**	2	Free
	Latest machine processes from cutting to finished product.		
25–254	**Great Arctic Seal Hunt**	2	2.00
	Adventures of the sealers.		
25–294	**The Silk Industry**	1	.50
	Moth culture. Taking silk from cocoon. Spinning and weaving processes in American factory.		
*25–267	**Silk**	1	1.00
	I. Raw silk industry in Orient. II. Shipping. III. Warp and woof for weaving. IV. Weaving.		
25–324	**Art of Spinning and Weaving**	2	2.00
	Authentic Colonial backgrounds and picturizations. Operating flax and wool spinning wheels, clock reel, and niddy-noddy for making skeins. Weaving processes on simple tape loom and on common hand loom. Arranging warp, setting up loom, preparing weft on bobbin.		

COMMUNICATION

*25–79	**Communication by Electricity**	1	1.00
	Electric bell. Telegraph. Telephone. Sound waves and electric variations.		
25–142	**Wizardry of Wireless**	2	1.00
	Development of signal communication. Beacon fire, heliograph, semaphore, Indian smoke blanket, wigwagging, telegraph, telephone, and radio. Animated drawings explain electrical action and function of apparati employed in radio transmission and reception.		

* Film lesson available. See introductory paragraph on page [v].

ELECTRICAL

No.	Subject	No. Reels	Service Charge
25–167	**The Greater Campus** Through various plants of General Electric Company. Assignments given "test men" or student engineers.	2	1.00
25–259	**Mazda Lamp Manufacture** Blowing of bulbs, making filament, assembling, and exhausting air.	2	1.00
25–138	**The Conductor** The making of lamp cord.	1	.50
25–130	**The Potter's Wheel** Making electrical porcelain. Molding, turning, glazing, and firing.	1	.50
25–141	**The Busy Body** Manufacture of electric motor.	1	.50
25–129	**The Benefactor** Life of Edison. Struggles in perfecting incandescent lamp.	2	1.00
25–143	**Thomas A. Edison** Edison's later life.	1	.50
25–164	**Big Deeds** Through General Electric Company factory at Schenectady, N. Y. Huge hammer pounding 12,000-pound billet into shape. Immense electric ovens. Research laboratories. 900,000 volt Coolidge cathode tube. X-ray. Broadcasting first television drama. Testing effects of lightning, and other experiments.	2	1.00
*25–16	**Illumination** I. Progress of illumination. II. Measurement of illumination. Use of photometer. III. Quality of illumination. Correction of glare. IV. Methods of illumination. Direct and indirect lighting.	1	1.00

FOOD

*25–117	**Wheat** I. Pioneer farming. II. With machinery. III. Storing and marketing wheat.	1	1.00
*25–118	**From Wheat to Bread** I. Flour making—old and modern methods. II. Bread baking.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–416	**Leavening**	3	1.50
	Development from ancient unleavened baking to modern use of baking powders—correct and wrong methods of measuring and mixing dough—correct baking.		
25–139	**Our Daily Bread**	1	.50
	Evolution of wheat and bread making industries.		
25–134	**The Sugar Trail**	1	.50
	Beet sugar industry.		
25–131	**Cuba, Island of Sugar**	1	.50
	Story of cane sugar. Havana.		
25–147	**Pillars of Salt**	1	.50
	Mining and refining.		
*25–116	**Cattle**	1	1.00
	I. Life on cattle ranch. II. Alfalfa for winter feeding. III. Shipping cattle. IV. Rodeo.		
25–343	**Rabbit Farming**	2	.30
	Breeds of domestic rabbits; rabbitries of various types; possibilities of rabbits for meat and fur.		
*25–194	**Meat Packing**	1	1.00
	I. From cattle ranch to stockyards. II. Dressing beef. III. Curing hams.		
25–346	**Preparation and Marketing of Dressed Poultry**	2	.30
	Grading live poultry at country feeding stations; feeding and care of feeding room; picking, precooling, and packing; Long Island duck industry; cold storage; Government grades.		
*25–200	**Pacific Coast Salmon**	1	1.00
	I. Salmon run. II. Artificial spawning. III. Salmon fishing. IV. Packing.		
25–397	**Trapping Tuna**	1	.50
	Scenes of one of Canada's prolific fisheries. How giant tuna fish are caught along the shores of Nova Scotia and prepared for market.		
25–107	**Making Chocolate**	1	.50
	Harvesting cocoa beans in Philippine Islands. Making into cocoa and chocolate.		
25–182	**Behind the Cup**	2	**Free**
	Story of coffee.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–165	**Banana Land**	1	.50
	Banana growing and shipping in Tela.		
25–318	**The Miracle of Corn**	1	.50
	Manufacture of corn flakes.		
25–320	**Tea Scenes**	2	Free
	Raising tea in India, Java, China, and Japan. Preparing for American market.		

GLASS

25–108	**Romance of Glass**	1	.50
	History of glass. Cold pack canning.		
25–109	**The Magic Jar**	1	.50
	History of food preservation methods. Manufacture of mason jars. Modern methods of home canning.		

HOME CONSTRUCTION

25–483	**House of Dreams**	1	.50
	Shows details to be considered in construction of a house—poor example with rusted gutters, screens, pipes, leaking roof. Model home with bronze and copper plumbing and screening, special roofing and weather insulating material.		

LUMBERING

25–510	**The Forest and Wealth**	1	.30
	A story of the forest's contribution to industry and to the comfort and wealth of mankind. (U.S.D.A.)		
25–393	**Lumbering in British Columbia**	1	.50
	British Columbia produces many million feet of lumber annually and one-third of the total output of Canada. Immense forests contain some of the finest timber in the world today. This educational film depicts lumbering operations from the felling of the giant trees to the export shipping of the finished product.		
*25–193	**Lumbering in the Pacific Northwest**	1	1.00
	I. From forest to sawmill. II. Cutting logs into lumber. III. Seasoning and finishing.		
25–144	**The World of Paper**	2	1.00
	Evolution of writing and writing materials. Modern method of making paper.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–137	**Conquest of the Forest** Lumber industry of great Northwest.	1	.50
*25–115	**Reforestation** I. Effect of wasteful cutting. II. Tree nursery. III. School project in reforestation.	1	1.00

MINING AND METALLURGY

*25–119	**Iron Ore to Pig Iron** I. Mining. II. Transporting. III. Smelting.	1	1.00
*25–120	**Pig Iron to Steel** I. Open hearth. II. Blooming mill. III. Finishing mill.	1	1.00
*25–150	**The Moulder** Types of foundries. Sand storage bins.	1	.50
25–19	**Making Wire Rope** Manufacture. Uses.	3	1.50
25–152	**Ties of Steel** Converting worn-out rails into railroad ties through electric welding.	1	.50
25–224	**Story of Monel Metal** Composition of monel metal; its nature and manufacture. Largest non-ferrous electric furnace in the world. Uses of the metal.	2	1.00
25–145	**Anthracite** Old and new methods used in hard coal mining.	1	.50
25–146	**Bituminous** Old and new methods used in soft coal mining.	1	.50
*25–187	**The Mining and Smelting of Copper** I. Open-pit mining. Loading and shipping ore. II. Concentrating. III. Smelting.	1	1.00
25–260	**Mountains of Copper** Surface mining in Bingham Canyon, Utah.	1	.50
*25–189	**Gold** I. Mining methods: dredging, hydraulic, quartz. II. Processes. III. Coinage.	1	1.00
*25–196	**Producing Crude Oil** I. Preparing to drill. II. Drilling: comparison of rotary and cable-tool methods. III. Transporting.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–374	**Refining Crude Petroleum**	3	Free
	Animated diagrams show the process from the introduction of crude oil into the topping stills, through the various stages of refinement. Laboratory tests to determine characteristics of the crude oil.		
25–376	**Behind the Oil Cargo**	3	Free
	Field operations of industry: first oil wells; principles of "Cable Tool" and "Rotary" systems of drilling; field equipment in operation; separation of natural gasoline from natural gas and subsequent use of the gas to "lift" oil from low-pressure wells.		
25–223	**Story of Sulphur**	2	1.00
	Process of extraction from underground deposits. Uses of sulphur.		
25–398	**Making Money**	1	.50
	A film trip through the Royal Mint at Ottawa, the Capital of Canada, showing the various processes in the making of Canada's coinage.		
25–481	**Nickel**	2	1.50
	I. Discovery of nickel; mining; broken ore in the crusher; the electric hoist; picking belt; screening; flotation; smelting; the converter; cupola furnace; cooling pots; reverberatory furnace; electrolytic plant. II. Nickel as an alloy; nickel copper alloy in an electric furnace; ingot molds; rolling mill; making wire. Uses of nickel in dairy, restaurant, kitchen, speedboat, train, ocean liner.		

PAPER AND PRINTING

25–144	**The World of Paper**	2	1.00
	Evolution of writing and writing materials. Present-day method of making paper.		
25–166	**Story of Writing Paper**	2	1.00
	Manufacturing stationery from linen and cotton rags.		
25–221	**Photo-Engraving**	2	1.00
	Processes involved.		
*25–72	**The Journalist**	1	1.00
	Three types of work: newspaper, magazine, and book. Work of reporters, correspondents, and editors. Organization of staff and office.		

* Film lesson available. See introductory paragraph on page [v].

POTTERY

No.	Subject	No. Reels	Service Charge
25–130	**The Potter's Wheel** Making electrical porcelain. Molding, turning, glazing, and firing.	1	.50

RUBBER

*25–199	**Rubber** I. Producing crude rubber. II. Compounding: scenes at tire factory in United States. III. Soft rubber production. IV. Hard rubber manufacture.	1	1.00
25–225	**Romance of Rubber** Growing and refining in Sumatra. Native life on plantation.	2	1.00

SOAP

*25–377	**The Story of Soap** Natives of the South Seas gathering and drying cocoanuts. Shipping copra to the factory. Extraction of cocoanut oil. Use of cottonseed oil. Laboratory research on materials used in soap manufacture. Process of making soap. Soap tasters. Packing by automatic carton machines.	1	Free

SPONGES

25–422	**Sponge Fishing** Sponge fishing in Florida surf—"hooking" with long pole 5 to 30 feet below surface—diver, with 15-pound shoes, lead bars strapped to shoulders, obtains sponges 100 feet below surface—divers submerge in turns for 25 minutes. Dock at Tarpon Springs, largest sponge exchange in world—sponges stored in warehouse, clipped, sorted, packed for shipment.	1	.50

STEEL WOOL

25–423	**Steel Wool** First machine for making steel wool in Germany—modern machines in U. S. factory showing tempering of steel wire, butt welding, stream of wire coil producing continuous ribbon of steel wool—safety devices for protection of worker—various forms and uses of steel wool.	1	.50

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* Film lesson available. See introductory paragraph on page [v].

TRANSPORTATION

No.	Subject	No. Reels	Service Charge
*25–78	**Transportation**	1	1.00
	Principles of steam and gas engines used in locomotives, automobiles, and airplanes.		
25–125	**King of the Rails**	1	.50
	History of land transportation in United States. Electric railway system.		
25–163	**Conquest of the Cascades**	1	.50
	Building Cascade Tunnel.		
*25–192	**Ocean Liners**	1	1.00
	I. Building. II. Cargo. Fueling, lifeboat and health inspection of crew. Living quarters. III. Navigation.		
*25–197	**Overland to California**	1	1.00
	I. A natural highway. II. Through Rockies. III. Across Great Basin: Utah and Salt Lake City. IV. From Great Basin to Pacific: through Sierra Nevadas and Sacramento Valley to San Francisco.		
25–132	**Queen of the Waves**	1	.50
	History of American navigation.		
*25–62	**People Who Live by the Sea (Mediterranean)**	1	1.00
	Ancient and modern Mediterranean ports and trade routes.		
25–424	**Intercoastal Cargo**	2	Free
	Story of cargo handling by modern intercoastal freighters—Panama Canal—Boston Fish Pier—Old North Church—Philadelphia, Boston and New York harbors—life boat drill at sea—expert handling of 70,000 pound lift from dock to ship's hold.		
*25–63	**Modern Commerce**	1	1.00
	Types of ships. Voyage Europe to New York. New York to South America. Panama Canal. Unloading and loading cargo at Buenos Aires.		
*25–268	**The Automobile**	1	1.00
	Fabrication of: I. Steel. II. Rubber. III. Glass. IV. Gasoline.		
25–266	**Flying Across America**	2	1.00
	Airplane flight from San Francisco to New York, with air views of scenic and historical regions, including fourteen major cities. Latest aids to aerial navigation.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
U. S. Department of Agriculture Films:			
25–381	**Watching the Weather Above**	2	.30
	Aerial activity, including the Army, the Navy, the air-mail service, forest-fire airplane patrols, and airplanes in insect control; importance of weather forecasting to successful aviation; how observations are made for flying-weather forecasts.		
25–382	**Highway Beautification**	2	.30
	Suggests ways to preserve and enhance the beauty of roadside plant material and otherwise beautify highways, and add to the safety and comfort of travel by elimination of obstructions interfering with vision and by the removal of eyesores. Recommendations are made concerning constructions scars, steep banks, scenic lookouts, guard rails, automobile camps, bridges, etc.		
25–507	**Maintenance of Roads**	1	.30
	Emphasizes the importance of keeping roads in good condition and shows some of the ways in which it may be done. Points out that adequate maintenance tends to make roads safer for traffic, reduces the upkeep cost of roads and also the operating cost of motor vehicles.		
25–508	**Roads in Our National Parks**	1	.30
	A panorama of the service performed by the Bureau of Public Roads in construction of modern highways in our western national parks. The scenic wonders of Yosemite, Glacier, Rocky Mountain, Mount Rainier, Mount Lassen, and Mesa Verde National Parks.		

VOCATIONAL GUIDANCE

*25–65	**Farmer, The**	1	1.00
	Life on diversified farm. Corn, hay and grain, livestock; home and social life.		
*25–66	**Industrial Worker, The**	1	1.00
	Life in factory and at home.		
*25–67	**Skilled Mechanic, The**	1	1.00
	Construction of reënforced concrete buildings, showing work of various skilled laborers.		
*25–68	**Engineer, The**	1	1.00
	The man who solves problems. Designing bridges, tunnels. Need for knowledge of men and of materials.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–69	**Executive, The**	1	1.00
	Steps in development from routine worker to business executive.		
*25–70	**Salesman, The**	1	1.00
	Steps in sales procedure.		
25–502	**The Master Farmer**	2	.30
	The master-farmer movement as exemplified by results in Oklahoma; scenes illustrating the farm and home life of farmers who have made a success of farming in the fullest sense of the word. (U.S.D.A.)		
25–388	**The Woman Worker, Past and Present**	1	.50
	Changed economic status which industrial revolution gave to woman. Advantages of present system; disadvantages. Suggestions for elimination of latter.		
25–419	**Within the Gates**	2	1.00
	Importance of woman in present day economic life—how nearly every commodity passes at various stages in its manufacture through hands of women.		
25–420	**Story Women's Bureau**	1	.50
	History of the Women's Bureau—its work in collecting statistics and information.		
25–421	**Behind the Scenes in Machine Age**	3	1.00
	Deals with general theme of human waste in industry, particularly as related to women workers. Need for well-planned program of adjustment of workers displaced by machines. Plans to promote welfare of women workers.		
*25–71	**Doctor, The**	1	1.00
	Growth of medical knowledge and practice in past generation. Preparation. Life of doctor.		
*25–72	**Journalist, The**	1	1.00
	Types of work: newspaper, magazine, and book. Work of reporters, correspondents, and editors. Organization of staff and office.		
*25–73	**Artist, The**	1	1.00
	Typical art class; work of commercial artist. Various arts.		
25–150	**The Moulder**	1	.50
	Types of foundries. Sand storage bins.		
25–167	**The Greater Campus**	2	1.00
	Through various plants of General Electric Company. Assignments given "test men" or student engineers.		

* Film lesson available. See introductory paragraph on page [v].

NATURE STUDY

PLANTS

No.	Subject	No. Reels	Service Charge
*25–37	**Fruits and Flowers** — Care of garden. Types of flowers and plants. Plant cycle.	1	1.00
25–171	**Seeds and Seed Dispersal** — Nature's various devices to propagate plant species.	1	1.00
*25–34	**Preparing for a Garden, Part I** — Clearing, composting, fertilizing. Common pests.	1	1.00
*25–35	**Preparing for a Garden, Part II** — Soils. Spading. Hot beds. Cold frames. Shelters.	½	.75
*25–36	**Growing Things** — Planning garden. Planting window boxes and flats. Planting seeds and bulbs. Germination. Plant supports. Garden germination.	1	1.00
*25–284	**Wild Flowers** — Hepatica, Bloodroot, Trillium, Azalea, Iris, Tidy Tip, California Poppy, and Blazing Star, live out life cycles on the screen, growing, blossoming, and wilting.	1	1.00
*25–326	**The Green Plant** — Biologic processes. Sunshine and chlorophyll, water and air, producing sugar and starch.	1	1.00
*25–212	**Luther Burbank** — Important projects. I. Cactus. II. Lily. Cotton, walnuts, potatoes. III. Wheat and oats.	1	1.00
25–256	**Four Seasons** — Effect of annual cycle on plant and animal life.	4	4.00

ANIMALS

*25–22	**How Living Things Find a Home on the Earth** — Prehistoric life; adaptation of plants and animals to living conditions.	1	1.00
25–243	**Animal Camouflage** — Crabs, worms, caterpillars, toads, lizards, "Walking Stick," "Praying mantis," and other animals employing protective mimicry.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–250	**Alaskan Adventures**	2	2.00
	Alaskan scenery, wild animal and native human life. Mount Katmai, "Valley of Ten Thousand Smokes." Hunting wild game with bow and arrow featuring Arthur D. Young, world's champion archer. Selected scenes from Jack Robertson film termed outstanding by National Board of Review.		
25–402	**Down the Yukon River**	1	1.00
	Lakes and glaciers at the source of the Yukon; riding a canoe down the rapids; Miles Canyon and Whitehorse Rapids; picturesque Indian burying grounds at Nulato with little houses built over the graves; traveling by dog team over the frozen river in winter; break up of the ice in spring; fish wheels; natives catching salmon; Eskimo homes on the delta; herds of reindeer pasturing on the tundra; gold mining district near Nome; the cabin where Rex Beach wrote "The Spoilers." Arranged and produced by Jack Robertson.		
25–403	**Along the Alaskan Coast Line**	1	1.00
	Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sea-lions on the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in southwest Alaska; volcanic area of the "Valley of Ten Thousand Smokes"; wading through mud, pumice and ashes to reach Mount Katmai. Arranged and produced by Jack Robertson.		

LOWER ANIMALS

(See also page 61. Sound, pages 72–74.)

*25–26	**Seaside Friends**	1	1.00
	Sea anemone, starfish, octopus, and snail. Life cycle of oyster.		
25–236	**Crayfish-Stickleback**	1	1.00
	Crayfish: structure, environment, habits. Stickleback: only fish that builds nest.		
25–298	**Study of Coelenterata**	1	1.00
	Sea anemone, tube worm, rosy feather brittle star, girdle of Venus, comb jelly and eucharis, salpa, siphonophora, and man of war jelly fish.		
25–301	**Partnerships Under the Sea**	1	1.00
	Commensalism. Hermit crab and sea anemone. Sea cucumber and pearl fish. Salpa fish and jelly fish.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–302	**Silver Swimmer**	1	1.00
	Life of only spider living under water.		
*25–275	**Spiders**	1	1.00
	I. Structure of spider. II. Spinning an Orb web. III. Rearing the young. IV. Trapdoor spiders.		

INSECTS

*25–24	**Ants**	½	.75
	Types of ant home. Organization of community life. Life cycle. Aphis.		
*25–269	**Termites**	1	1.00
	Partial life history illustrated by I. Subterranean termites, II. Rotten-wood termites, and III. Sound-wood termites. Protective measures against termites.		
*25–25	**Bees and Spiders**	1	1.00
	Kinds of bees. Life history. Garden and trap-door spider. How webs are spun.		
25–300	**Palace of Honey**	1	1.00
	Life of the bee. How bees aid in pollenization.		
25–516	**The Realm of the Honey Bee**	4	.30
	Life history of the honey bee, containing some unusual close-ups. (U.S.D.A.)		
*25–84	**Disease Carriers**	1	1.00
	Breeding places and life cycle of flies and mosquitoes. Methods of destroying. Dangers of rat pest.		
*25–354	**The House Fly**	1	1.00
	I. Life history of fly. II. Structure of adult fly. III. A danger to health.		
*25–122	**Life History of the Mosquito (Aedes Aegypti)**	1	1.00
	Carrier of yellow fever virus. Eggs, hatching of larva. II. Larva, transformation to pupa. III. Pupa, emergence of mosquito. IV. Adult mosquitoes, male and female.		
*25–213	**Some Water Insects**	1	1.00
	I. Striders, bugs and scorpions. II. Dragon flies. III. Damsel flies.		
25–297	**Insect Farmers and Laborers**	1	1.00
	Remarkable story of parasol ant, exemplifying simbiosis and division of labor among insect societies.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–303	**Traps for Insects** — Insect-eating plants and animals. Praying mantis, pitcher plant, sundew, venus fly trap, chameleon.	1	1.00
25–313	**Castles of Paper** — Life story of hornet.	1	1.00
25–89	**The Evolution of a Butterfly** — Life cycle of a butterfly: egg, caterpillar, cocoon, butterfly. Anatomy of butterfly.	½	1.00

FISHES

*25–27	**A Day at the River** — Life histories of trout, salmon, stickleback, crayfish.	1	1.00
*25–200	**Pacific Coast Salmon** — I. Salmon run. II. Artificial spawning. III. Salmon fishing. IV. Packing.	1	1.00
25–296	**Countless Enemies** — Creatures which prey upon fishes: tiger beetles, water snakes, turtles, ducks, shrews. Weather conditions destructive to fishes.	1	1.00
25–304	**Underwater Households** — Fishes paying more than usual attention to next generation. Brazilian Chanchitos.	1	1.00
25–365	**From Hatchery to Creel** — (California Fish and Game Commission film.) Artificial trout spawning and hatching at Mt. Shasta Hatchery. Transporting and planting in Yosemite Valley.	3	3.00

AMPHIBIANS AND REPTILES

*25–28	**Down at Our Pond** — Life cycles of toad and frog. Habits of turtles. Types of snakes.	1	1.00
*25–279	**Frogs, Toads and Salamanders** — Life cycles and outstanding species of I. Frogs. II. Toads. III. Salamanders.	1	1.00
*25–274	**Reptiles** — I. Snakes. II. Lizards. III. Alligators. IV. Tortoises and turtles.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–307	**Jungle Round-Up, The** Animals of Amazon. Crocodiles, Boa-constrictor, Sloth.	1	1.00
*25–114	**Arid Southwest, The** I. Plant life of Arizona desert. II. Animal life. III. Nomadic human life.	1	1.00
	BIRDS		
*25–29	**In Birdland** Life and habits of smaller native birds.	1	1.00
*25–208	**Bird Homes** I. Beach and marsh homes. II. Meadow homes. III. Skyscraper homes. IV. Homes near ground.	1	1.00
25–299	**Nesting Habits** Types of bird nests. Eggs covered in sand, open hollows in sand, burrows in cliffs, holes found in trees, holes made in trees, platforms of reeds or sticks, nests in tree tops, woven nests, plastered nests, humming bird nests.	1	1.00
25–234	**Baby Songbirds at Mealtime** Sparrow, Linnet, Canary, Bullfinch, Chaffinch, Brown Linnet, Titmouse, Tomtit, European Warbler, and Marsh Wren.	1	1.00
*25–209	**Game Birds** I. Water fowl: mallard, pintail and teal ducks, wild geese, and coots or "mudhens." II. Grouse. III. Quail: California and bobwhite. IV. Pheasants. V. Wild turkeys.	1	1.00
*25–210	**Birds of the Seacoast** I. Gulls. II. Terns. III. Black skimmers. IV. Murres. V. Cormorants. VI. Pelicans.	1	1.00
*25–211	**Wading Birds** I. Sandpipers. II. Snipes. III. Plovers. IV. Stilts and Avocets. V. Phalaropes. VII. Herons.	1	1.00
*25–30	**Pirates of the Sky** Lives and habits of water fowl and birds of prey.	1	1.00
25–348	**Tame Wild Life of Yosemite** Golden Mantles ground squirrel; California ground squirrel; Western tanager; mule deer; Sierra grouse; San Joaquin Valley elk; forest of antlers; blue-fronted jay; young black-headed grossbeaks and robin; young Sierra chickaree; American black bear.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–352	**Yellowstone National Park**	1	1.00
	I. Physical features. II. Birds and beasts. III. Administration of Park.		

MAMMALS

25–361	**Animals of the Cat Tribe** (Elementary)	½	.50
*25–32	**Furry Creatures (Rodents)**	½	.75
	Rabbits, squirrels, woodchucks, prairie dogs, otters, and beavers.		
*25–207	**Adventures of Peter**	1	1.00
	Peter, a fox terrier, goes camping and meets many animal friends. Common mole, ground squirrel, badger, armadillo, porcupine, skunk, bear, hornets. (Elementary)		
*25–31	**Our Pets**	1	1.00
	Cats and dogs. Use to man. Related wild animals.		
*25–33	**Friends to Man (Ruminants)**	1	1.00
	Cow, buffalo, bison, sheep, goats, deer, camel. Habits and value to man.		
*25–214	**Rocky Mountain Mammals**	1	1.00
	I. Mammals of open plains: antelope and coyotes. II. Of heavy forests: mule deer, mountain lion, grizzly bear, pack rat and cony. III. Of dwarf timber: mountain sheep and mountain marmot. IV. Of barren heights: mountain goats.		
*25–215	**Some Larger Mammals**	1	1.00
	Supplements film 25–214. I. Bison. II. Black bears. III. Virginia deer. IV. Wapiti (elk). V. Moose.		
25–308	**Killing the Killer**	1	1.00
	Battle of cobra and mongoose.		
25–348	**Tame Wild Life of Yosemite**	1	1.00
	Golden Mantles ground squirrel; California ground squirrel; Western tanager; mule deer; Sierra grouse; San Joaquin Valley elk; forest of antlers; blue fronted jay; young black-headed grossbeaks and robin; young Sierra chickaree; American black bear.		
*25–352	**Yellowstone National Park**	1	1.00
	I. Physical features. II. Birds and beasts. III. Administration of Park.		
*25–360	**Glacier National Park**	¾	1.00
	I. Physical features. II. Plant and animal life. III. Indians. IV. A national playground.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–501	**Beavers at Home**	2	.30
	Beavers at work repairing dams and felling trees; beaver houses; studies of baby beavers. (U.S.D.A.)		
25–515	**Regulated Deer Hunting**	2	.30
	Shows damage done by deer when they become too numerous, and how they are removed by trapping, artificial rearing and shipping of fawns, and by regulated hunting in the Pisgah National Forest and Game Preserve in North Carolina. (U.S.D.A.)		
25–504	**The Horse and Man**	1	.30
	An acknowledgment of the horse's part in the conquest of the New World and in modern American life. Indian ponies, cow horses, plow horses, cavalry mounts, race horses, hunters, truck horses, and bucking broncos. (U.S.D.A.)		
25–512	**How to Handle Foxes**	2	.30
	Shows approved methods of catching and holding as practiced on fox farms. Of special interest to veterinarians. (U.S.D.A.)		
25–57	**Work Dogs of the North**	1	1.00
	Selected scenes of the beast of burden of the North. Arranged and presented by Jack Robertson. Dog teams on a trail over rough ice and steep mountains. Care and feeding of the dogs. Dog teams pulling canoes upstream in summer. Excellent Arctic scenes.		

PHYSICAL EDUCATION

*25–378	**Modern Football Fundamentals**	2	2.00
	I. Technique of running, blocking, tackling, and punting. The forward pass and the place kick. Accurate ball handling. II. Keeping in condition, handling the body, correct playing position. III. Development of "game sense." Meeting situations in actual play. Made under the supervision of Coach Kipke, University of Michigan.		
25–468	**Basketball**	2	2.00
	Necessary training and diet for the player—discussion of history of the game—fundamental drills and plays demonstrated at University of Kansas, Coach Allen directing — normal speed, slow-motion and "frozen frames" used to show exact positions. Technique of individual and team offense and defense.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–226	**Track and Field** The technique of track and field: sprints, low and high hurdles, relay, high jump, javelin, discus, shot put, broad jump, and pole vault. Demonstrated at the 1932 Olympic games by famous track men such as Renner, Tay Ghan, Frank Wykoff, Robert Lyon, James Denari, Toribio, Metcalf, Lyman, and Graber. Prepared especially as a guide for coaches. Shown in slow motion.	1	1.00
25–400	**I.C.A.A.A.A. Field Events** Slow motion pictures of each event in the 1932 competition, held in Edwards Track Stadium: shot put, javelin, pole vault, high jump, discus, broad jump, and hammer throw; demonstrated by Gray, Metcalf, Graber, Thomson, Miller, Connor, Van Ossdel, Jones, Barber, and Zaremba.	1	1.00
25–401	**I.C.A.A.A.A. Track Events** Slow motion pictures of the 100- and 220-yard sprints, the one- and two-mile runs, 440- and 880-yard races, and the hurdles. Wykoff, Kiesel, Mangan, Hallowell, Carr, Eastman, McClusky, Bonthron, Turner, Fates, and Payne in the 1932 competition.	1	1.00
25–514	**N.C.A.A. Track Meet** Track meets of June 21 and 22, 1935, at Edwards Field. Showing 440-yard dash, 100-yard dash—Owens broad-jumping—120-yard high hurdles—880-yard run—220-yard low hurdles—2-mile run. All in slow motion.	2	1.50

RECREATION

See "**Touring Germany Today,**" page 78.

25–341	**In a Glistening Paradise** (Photographed in Alps) (A Film on Skiing) Offered for rental to responsible individuals and organizations. Reel 1—Scenes in mountain valleys during the winter. Reel 2—How the ski-runner keeps himself in good physical form during the summer. Appropriate gymnastic exercises. Reel 3—The equipment of the ski-runner, including both skis and clothing. How skis are made and cared for. Reel 4—The elements of skiing: the simplest movements, modes of handling the skis and the stock. Reel 5—Somewhat more advanced use of the skis. Description of movements and methods of locomotion. Reel 6—Still more advanced work, including jumping and leaping. Reel 7—Touring on skis, amid Alpine scenery.	7	10.00 in Calif 15.00 out of state

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–408	**Winter Olympics**	1	1.00
	Held at Lake Placid in the Adirondacks. Seventeen nations compete for titles in ice-skating races, hockey, figure skating, dog-sled racing, ski-jumping, and bobsled racing. Famous athletes such as Jaffee, St. Goddard, Ruud, Sonja Henie, and Stevens Brothers.		
25–395	**Where Snowtime is Joytime**	1	.50
	Skiing—that exhilarating winter sport introduced to the world by Norsemen—has become probably Canada's most universally popular winter pastime. The joys and thrills of this form of winter sport in the snow-clad Gatineau Hills adjacent to Ottawa—Canada's Capital.		
25–396	**Where Winter Sport is King**	1	.50
	Old city of Quebec in winter. Sleighing, triple chute tobogganing, snowshoeing, ice-skating, skiing, ski-joring races, ski-jumping, dog-sled racing.		
25–157	**Winter in Yosemite**	1	1.00
	Tobogganing, riding dog sleds, figure skating on ice, hockey games, ski-joring races, "ash-can" slides. Yosemite's Ice-skating Carnival.		
25–365	**From Hatchery to Creel** (California Fish and Game Commission film)	3	3.00
	Artificial trout spawning and hatching at Mt. Shasta Hatchery. Transporting and planting in Yosemite Valley.		
25–515	**Regulated Deer Hunting**	2	.30
	Shows damage done by deer when they become too numerous, and how they are removed by trapping, artificial rearing and shipping of fawns, and by regulated hunting in the Pisgah National Forest and Game Preserve in North Carolina. (U.S.D.A.)		
25–250	**Alaskan Adventures**	2	2.00
	Alaskan scenery, wild animal and native human life. Mount Katmai, "Valley of Ten Thousand Smokes." Hunting wild game with bow and arrow featuring Arthur D. Young, world's champion archer. Selected scenes from Jack Robertson film termed outstanding by National Board of Review.		

No.	Subject	No. Reels	Service Charge
25–402	**Down the Yukon River**	1	1.00

Lakes and glaciers at the source of the Yukon; riding a canoe down the rapids; Miles Canyon and Whitehorse Rapids; picturesque Indian burying grounds at Nulato with little houses built over the graves; traveling by dog team over the frozen river in winter; break up of the ice in spring; fish wheels; natives catching salmon; Eskimo homes on the delta; herds of reindeer pasturing on the tundra; gold mining district near Nome; the cabin where Rex Beach wrote "The Spoilers." Arranged and produced by Jack Robertson.

25–403	**Along the Alaskan Coast Line**	1	1.00

Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sea-lions on the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in southwest Alaska; volcanic area of the "Valley of Ten Thousand Smokes"; wading through mud, pumice and ashes to reach Mount Katmai. Arranged and produced by Jack Robertson.

25–478	**Alaskan Interlude**	3	1.50

I. Perils of the Gold Rush; snow; rivers; glaciers; a cruise ship today; deck games and scenery; Vancouver; Gardner Canal; Prince Rupert. II. Ketchikan; Wrangell; Sitka; totems; Taku Glacier; Juneau; Mendenhall Glacier; Lynn Canal; Skagway. III. To White Pass Summit by train; by steamer to Lake Tagish; White Horse; the land of gold.

25–509	**Forest Fires—or Game**	1	.30

Unburned forests are a home for game birds and animals, and forest streams a home for fish, but forest fires and unrestricted hunting and fishing make restocking with game and fish necessary. Of interest to those who use our forests for recreation. (U.S.D.A.)

SCIENCE

ASTRONOMY

*25–77	**Earth, The**	1	1.00

Relationship to other astronomical bodies. Water cycle and effects in changing earth's surface.

*25–20	**Sky, The**	1	1.00

Observations through telescope. Moon, sun, and planets. Stars and nebulae.

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–309	**The Sun**	1	1.00
	Influence on earth. Sun spots. Eclipse; corona and prominences. Apparent motion and cause. Meridians. Seasons.		
25–310	**Trip to the Planets**	1	1.00
	By Clyde Fisher, Curator of Astronomy of American Museum of Natural History. Imaginary trip made real by telephotographs and photographs of models. Earth from a distance. Moon landscape. Venus. Mercury, and Mars.		
25–315	**Development of Astronomical Knowledge**	1	1.00
	Early theory of Earth as disc floating in water. Ptolemaic and Copernican theories. Kepler's theory. Galileo's invention of telescope.		
25–316	**Jupiter, Saturn and the Milky Way**	1	1.00
	Jupiter and moons; attraction for bodies; heat of surface. Saturn and rings; phases; moons. How even "fixed stars" are moving. Milky Way.		
25–317	**Evolution of the Universe**	1	1.00
	Nebular theory illustrated by revolving oil in water. Evolution of Earth.		
25–373	**The Solar Eclipse of August 31, 1932**	1	1.00
	By stop-motion photography the actual progress of the Moon across the Sun is shown. (Produced by McMath-Hulbert Observatory of the University of Michigan.)		
25–372	**A Motion Picture Journey to the Moon**	1	1.00
	Includes a panoramic picture of sunrise and sunset phenomena in lunar craters, and an occultation of the Delta Capricorni by the Moon. (Produced by the McMath-Hulbert Observatory of the University of Michigan.)		
25–394	**Communing with the Heavens**	1	.50
	A film trip through the Dominion Observatory at Ottawa, Canada, giving a clear insight into the work of the astronomy, seismography and other scientific undertakings.		

BIOLOGY

25–340	**Protoplasm, Beginning of Life**	1	1.50
	The earliest forms of life as revealed through geology, characteristics of living things—movement, irritability, assimilation, reproduction—shown in the amoeba, stentor and other simple forms; nature of protoplasm.		

No.	Subject	No. Reels	Service Charge
*25–81	**Life**	1	1.00
	Life cycle of representative plant. Amoeba. Life cycles of bird and frog.		
*25–285	**Microscopic Animal Life**	1	1.00
	Photomicrographic views. I. Amoeba. II. Paramecium. III. Stentor. IV. Verticella. V. Rotifer.		
*25–278	**Bacteria**	1	1.00
	I. Making culture media. II. Growing bacteria. III. Examining bacteria. (Upper grades and high schools.)		
*25–82	**Man**	1	1.00
	Amoeba, lowest form of life. Man, the highest. Diagram showing heart, lungs, alimentary canal, stomach, nervous system, eye, ear, etc. How connected with brain.		
*25–127	**The Blood**	1	1.00
	I. Plasma, proteins and salts. II. Blood cells, white and red. Hemoglobin. Platelets.		
*25–158	**Living Cells**	1	1.00
	I. Single-celled organisms; amoeba, paramecium. II. Many-celled organisms: hydra, flatworm. III. Tissue cells. IV. Cell division.		
*25–83	**Armies of Health and Disease**	1	1.00
	Growth of germs. Louis Pasteur and experiments. Bacteria. Pasteurization. Causes of disease. Immunization through inoculation. Preparation of serums.		
25–332	**Reproduction in Lower Forms of Life**	1	1.50
	How the one-celled plant or animal reproduces by dividing; sexual reproduction in pond-scum and hydra; budding in hydra; structure of a flower, pollinization by insects; origin of seed.		
25–333	**Reproduction in Higher Forms**	1	1.50
	Development of higher organisms from the one-celled stage; reproduction in fish, reptiles, birds and mammalia, including ovulation, fertilization, development and nourishment of the embryo.		
*25–277	**Development of a Bird Embryo**	1	1.00
	Photomicrography and diagram. Technique of mounting embryo for observation, establishment of circulation, action of heart, and development of three membranes—yolk sac, amnion, and allantois.		
*25–326	**The Green Plant**	1	1.00
	Biologic processes. Sunshine and chlorophyll, water and air, producing sugar and starch.		

* Film lesson available. See introductory paragraph on page [v].

BOTANY

(See also page 51, Sound 71–74)

CHEMISTRY

No.	Subject	No. Reels	Service Charge
25–261	**Beyond the Microscope** Molecular construction of water. Physical changes produced by vaporization and solidification.	1	.50
*25–75	**Fire and Heat** Relative combustion points and conductivity of materials. Physical properties and their utilization by man.	1	1.00
*25–216	**Fire Making** I. Fuel and oxygen. II. Kindling points. III. Historic matches. IV. Making modern matches.	1	1.00
25–342	**Story of Bakelite** Combination of phenol and formaldehyde to produce bakelite. Chemical processes of obtaining phenol from tar, and formaldehyde from wood alcohol. Manufacturing bakelite products.	2	1.00
*25–377	**Story of Soap** Natives of the South Seas gathering and drying cocoanuts. Shipping copra to the factory. Extraction of cocoanut oil. Use of cottonseed oil. Laboratory research on materials used in soap manufacture. Process of making soap. Soap tasters. Packing by automatic carton machines.	1	Free
25–49	**The Chemistry of Combustion** Experiments in combining certain chemicals to produce combustion, such as placing potassium on water. Making Grecian fire and burning wire nails.	1	1.00

GEOLOGY

*25–21	**Our Earth** Forces changing earth's surface. Weather and forecasting. Strata. Volcanoes and geysers. Clouds. Winds. Rain and rivers. Glaciers.	1	1.00
*25–112	**Water Cycle** I. Clouds. II. Rain, snow, and ice. III. Ground water. IV. Surface water.	1	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–245	**Sculpture of Land by Rivers**	1	1.00
	Erosion of land surface by running water.		
25–246	**Glaciers**	1	1.00
	Existing glaciers: classification, modes of origin, motion, characteristics. Effects on land surface.		
25–247	**Shore Lines and Shore Development**	1	1.00
	Forces shaping coast lines and lake shores.		
25–241	**The Work of Underground Water**	1	1.00
	Geologic work of underground water and expressions of result on surface.		
25–235	**The Cycle of Erosion**	1	1.00
	For individual streams and for broad regions.		
25–255	**Earthquakes**	1	1.00
	Nature, causes and effects of earthquakes. Types of wave motion accompanying earthquake. Methods of recording and interpreting seismic phenomena.		
*25–273	**Volcanoes**	1	1.00
	I. Quiet overflow types. II. Volcanoes having explosive eruptions. III. Products of volcanoes and life history of a volcanic cone. Subjects include Hawaiian volcanoes, the Palisades, South American volcano, Mt. Vesuvius, and Mt. Lassen.		
25–375	**Petroleum Geology**	3	Free
	Changes in physiography taking place in the North American continent since the deposition of the earliest fossil-bearing sediments are shown by animated paleogeographic maps and diagrammatic cross-sections. Life during Mesozoic era is presented in dinosaur scenes taken from the motion picture "The Lost World." The deposition of sediments, formation of mountain ranges, folding of sedimentary beds, "Fault" action, and the accumulation of oil in an anticline are made clear by animation.		
*25–360	**Glacier National Park**	¾	1.00
	I. Physical features. II. Plant and animal life. III. Indians. IV. A national playground.		
25–347	**Bryce Canyon**	½	.50
	Lacework of stone; wall of windows; The Cathedral.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–349	**Death Valley**	1	1.00
	Furnace Creek Inn; Furnace Creek Ranch; Old Harmony Borax Mill; creosote bush in bloom; mushroom rock—a queer lava formation; Golden Canyon; Devil's Golf Course; Ubehebe Crater; Giant mesquites; the bottle house; Titus Canyon; Devil's corn field; Death Valley's Sahara.		
25–250	**Alaskan Adventures**	2	2.00
	Alaskan scenery, wild animal and native human life. Mount Katmai, "Valley of Ten Thousand Smokes." Hunting wild game with bow and arrow featuring Arthur D. Young, world's champion archer. Selected scenes from Jack Robertson film termed outstanding by National Board of Review.		
25–402	**Down the Yukon River**	1	1.00
	Lakes and glaciers at the source of the Yukon; riding a canoe down the rapids; Miles Canyon and Whitehorse Rapids; picturesque Indian burying grounds at Nulato with little houses built over the graves; traveling by dog team over the frozen river in winter; break up of the ice in spring; fish wheels; natives catching salmon; Eskimo homes on the delta; herds of reindeer pasturing on the tundra; gold mining district near Nome; the cabin where Rex Beach wrote "The Spoilers." Arranged and produced by Jack Robertson.		
25–403	**Along the Alaskan Coast Line**	1	1.00
	Forests of spruce and hemlock; salmon fishing and canneries; ice breaking away from glaciers in the fjords; Kodiak, the old Russian capital; an old Russian Greek church still in use; silver fox farms; sea-lions on the rocky coast; coal strata and outcroppings along the shore; Aleut Indians in southwest Alaska; volcanic area of the "Valley of Ten Thousand Smokes"; wading through mud, pumice and ashes to reach Mount Katmai. Arranged and produced by Jack Robertson.		

METEOROLOGY

*25–325	**Weather Forecasting**	1	1.00
	Collection, tabulation and interpretation of weather data. Charting data on map. Animation showing procession of low and high pressure areas moving across United States.		
25–381	**Watching the Weather Above**	2	.30
	Aerial activity, including the Army, the Navy, the airmail service, forest-fire airplane patrols, and airplanes in insect control; importance of weather forecasting to successful aviation; how observations are made for flying-weather forecasts. (U.S.D.A.)		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–503	**Back of the Weather Forecast**	2	.30
	How the Weather Bureau judges what the weather is going to be. Shows how weather information is obtained and how forecasts are made after the information has been assembled and plotted on weather maps. (U.S.D.A.)		

PHYSICS

*25–74	**Air**	1	1.00
	Physical properties: weight, resiliency, resistance. Their utilization by man: airplane, dirigible, submarine.		
*25–123	**Compressed Air**	1	1.00
	I. Compressed air blasts. II. Compressing air. III. Air brakes on trains. IV. Air-driven tools. V. Compressed air on fire engines.		
*25–124	**Atmospheric Pressure**	1	1.00
	I. Unbalanced air pressure. II. Variations in atmospheric pressure in nature.		
25–151	**Liquid Air**	1	.50
	How made. Effect upon different objects. Refrigeration with air.		
*25–75	**Fire and Heat**	1	1.00
	Relative combustion points and conductivity of materials. Physical properties and their utilization by man.		
*25–216	**Fire Making**	1	1.00
	I. Fuel and oxygen. II. Kindling points. III. Historic matches. IV. Making modern matches.		
*25–76	**Water**	1	1.00
	Natural properties. Power and support of life, as used by man. Irrigation, water supply, and power system.		
*25–353	**Water Power**	1	1.00
	I. Water wheels. II. High head water-power developments. III. Low head water-power developments. IV. The hydroelectric generator. V. The transmission and use of electric power.		
25–261	**Beyond the Microscope**	1	.50
	Molecular construction of water. Physical changes produced by vaporization and solidification.		
*25–219	**Steam Power**	1	1.00
	Evolution of steam engine. I. Early steam engines. II. Simple steam engines. III. Steam boilers. IV. Early locomotives; explanation of modern locomotive.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–80	**Energy and Work**	1	1.00
	Transfer of energy from sun to coal, to steam, to electricity, to incandescence. Trip through hydro- and steam-operated electric power plants.		
*25–218	**Simple Machines**	1	1.00
	I. Levers. II. Wheels. III. Inclined planes. IV. Combinations traced in action of steam shovel.		
*25–272	**Four-Stroke Cycle Gas Engine**	1	1.00
	I. Four-stroke cycle motor. II. Fuel system. III. Ignition system. IV. Water and air cooling systems.		
*25–78	**Transportation**	1	1.00
	Principles of steam and gas engines used in locomotives, automobiles, and airplanes. (Junior high schools.)		
*25–217	**Behavior of Light**	1	1.00
	I. Light and shadow: theory of transmission in straight lines, shadows from point sources and from larger areas. II. Reflection. III. Refraction. IV. Color.		
*25–16	**Illumination**	1	1.00
	I. Progress of illumination. II. Measurement of illumination. Use of photometer. III. Quality of illumination. Correction of glare. IV. Methods of illumination. Direct and indirect lighting.		
25–314	**Time**	1	1.00
	History of time-recording instruments. Construction of modern watch.		
*25–92	**Principles of Magnetism**	2	2.00
& 93	Polarity. Lines of force. Reluctance and permeability. Magnetic induction. Uses of magnets. Molecular theory of magnetization. Terrestrial magnetism.		
*25–94	**Principles of Electrostatics**	2	2.00
& 95	Polarity. Conductors and insulators. Electrostatic induction. Electron theory. Distribution of charges. Electric machines. Condensers. Gaseous discharges. Lightning.		
*25–96	**Principles of Current Electricity**	2	2.00
& 97	Electron theory. Electrical potential. The electric current. Hydraulic analogy. Resistance. Units of electrical measurement. Ohm's law. Types of circuit. Electric power.		
*25–98	**Principles of Electro-Magnetism**	2	2.00
& 99	Electromagnetic phenomena. Relationship between current and magnetic fields. Coils and solenoids. Practical applications. Electromagnetic induction. Transformers.		

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
*25–100 & 101	**Principles of Current Generation** Theory and construction of A. C. and D. C. generators.	2	2.00
*25–102 to 105	**Principles of Electrical Measurement** Fundamental measurements. Electrical standards. Theory and construction of electrical measuring instruments. Voltmeters. Ammeters. Wattmeters. Power-factor meters. Synchroscopes. Frequency meters. Thermometers.	4	4.00
25–135	**Revelations by X-Ray** Manufacture of Coolidge tube. Animated drawings show electrical action in producing X-rays. Power of the X-ray to reveal inner structure of opaque objects. Action of bones of hand, wrist, elbow, knee, ankle, and foot. How X-rays have assisted modern science.	1	.50
25–142	**Wizardry of Wireless, The** Development of signal communication. Beacon fire, heliograph, semaphore, Indian smoke blanket, wigwagging, telegraph, telephone, and radio. Animated drawings explain electrical action and function of apparatus employed in radio transmission and reception.	2	1.00
*25–79	**Communication by Electricity** Early methods of communication. The electric bell and the telegraph. The undersea cable. The telephone. How we hear. The ear and the telephone.	1	1.00
25–140	**Light of a Race, The** History and development of artificial illumination.	1	.50
25–164	**Big Deeds** Through General Electric Company factory at Schenectady, N. Y. Huge hammer pounding 12,000-pound billet into shape. Immense electric ovens. Research laboratories. 900,000 volt Coolidge cathode tube. X-ray. Broadcasting first television drama. Testing effects of lightning and other electrical experiments.	2	1.00
25–141	**Busy Body, The** Machine processes involved in manufacture of smallest electric motor.	1	.50
25–167	**Greater Campus, The** Through plants of General Electric Company. Assignments given "test men" or student engineers.	2	1.00

* Film lesson available. See introductory paragraph on page [v].

No.	Subject	No. Reels	Service Charge
25–259	**Mazda Lamp Manufacture** Making glass, blowing bulbs, making filaments, assembling and exhausting air.	2	1.00
25–129	**The Benefactor** Life of Thomas A. Edison—struggles in perfecting incandescent lamp.	2	1.00
25–143	**Thomas A. Edison** Edison's later life.	1	.50

PHYSIOLOGY

(See pages 36–40)

SOCIOLOGY

(See pages 9–11; 18–32)

VOCATIONAL GUIDANCE

(See pages 49–50)

ZOÖLOGY

(See pages 51–57)

MISCELLANEOUS

25–227	**Golden Health** Orange culture and uses.	1	.50
25–106	**T. C. Your Sixth Sense** Value of proper temperature. How body makes adjustments to maintain normal temperature under varying conditions. Manufacturing thermometers; their different uses.	1	.50

16 MM SOUND FILMS

16mm SOUND FILMS

Users may order at one time, ten reels or more to be used at any time throughout the school year, for a rate of $1.00 a reel. No cancellations will be made.

NATURE STUDY

PLANTS

No.	Subject	No. Reels	Service Charge
25–517	**Plant Growth**	1	1.50
	Growth of the pea plant by time-lapse photography and microphotography from the time the seed first sends out its root and stalk until the ripened seeds are scattered. Processes of pollination and fertilization.		
25–518	**Roots of Plants**	1	1.50
	Various forms of plant roots, processes of growth, structure and other characteristics. Functions of the root-cap and root-hairs. An experiment in osmosis. Water absorption by the roots.		
25–519	**Flowers at Work**	1	1.50
	The parts and physiology of plant flowers. Various types of flowers and different methods of pollination. Every important step is carefully covered in the narrative. The relation of insects to cross-fertilization of flowers. How man has modified the form of flowers by cultivation.		
25–520	**Seed Dispersal**	1	1.50
	Ways by which seeds of plants are scattered in order to insure the propagation of the species, dispersal by the wind, transportation by animals, and forceful propulsion from the seed-case. Germination of seeds under various conditions. The struggle for survival in the plant world.		
25–521	**Fungus Plants**	1	1.50
	Growth and reproduction of various mushrooms. Molds and other fungi. The economic importance of these plants is definitely shown by their use as food, their destruction of dead organic matter and their cause of disease in plants.		
25–558	**Fungi Snare and Destroy Nematodes**	½	.50
	Nematode caught by fungus and destroyed. Wriggles into trap, noose tightens, attempts to escape, destroyed in two or three hours. Explanatory lecture.		

No.	Subject	No. Reels	Service Charge
25–522	**The Dodder**	1	1.50

The life story of the dodder, one of the best known of the group of parasitic flowering plants. The dodder twining about the host plant. Details in the structure and operation of the suckers. Beauty of the flowers. Destructive character of this plant.

25–523	**Plant Traps**	1	1.50

Carnivorous plants have the unusual characteristics of entrapping and digesting insects and other small animals. How the pitcher plant lures insects to its trap, where they drown. The sun-dew, another carnivorous plant, is shown throughout its life cycle. The enfolding of insects by its leaf tentacles.

25–559	**Forest and Water**	1	.50

The forest as the conserver of water. Water the servant of commerce, industry, the home—effect of trees on water supply, rivers, falls, rapids, still lakes—rain on the forest.

25–556	**Forest and Wealth**	1	.50

The forest, man's friend and helper through the ages; wood for transportation, for man's comfort, for communication, for recreation, for culture. Musical accompaniment by U. S. Navy Band.

ANIMALS

25–524	**The Frog**	1	1.50

The entire life cycle of the frog, as the most representative amphibian, is presented, aided by many stop-motion scenes, slow-motion photography, and microscopic views. The development of the embryo is thus brought to the screen in a continuous scene of only a few seconds. The several changes taking place in the tadpole stage are carefully portrayed.

25–525	**Animals of the Zoo**	1	1.50

Feeding Time at the Zoo! An opportunity to see not only the animals themselves, but the different kinds of food they eat. For some of the animals the zoo has reproduced the conditions of their native homes. In the film are the lion, tiger, eland, giraffe, bison, hippopotamus, rhinoceros, elephant, monkeys, sea lions, and the bears—brown, black and polar!

No.	Subject	No. Reels	Service Charge
25–526	**How Nature Protects Animals**	1	1.50
	Various ways by which animals are provided with devices to conceal themselves, either for the purpose of protection, or as a means of securing food. Examples are given of natural protection through fleetness of foot, mimicry, protective coloration, armor and secluded homes. In the picture are the rabbit, raccoon, giraffe, tiger, lion, zebra, goat, pheasant, looper caterpillar and the bee-hawk moth.		
25–527	**Beach and Sea Animals**	1	1.50
	Starfish, sea-urchin, crab, cuttlefish, octopus, crayfish, lobster, shrimp, snail, scallop, and the sea-cucumber. The physical structure and activities and the balance in nature or interrelations of these various animals are clearly illustrated, special emphasis being placed on their methods of protection.		
25–528	**Tiny Water Animals**	1	1.50
	The life processes and activities of amoebae and paramecia are shown. The activities of the amoebae including reproduction are given major emphasis. Wheel animalcule, chiloden, swan animalcule and stentor.		
25–529	**Butterflies**	1	1.50
	Complete history of the cabbage butterfly and the swallow tail butterfly with their characteristics and habits, including their rôle in nature, that of aiding in the cross-fertilization of flowers.		
25–530	**Moths**	1	1.50
	A large silk moth and the white-masked tussock moth are followed in detail through their life histories. The silk moth caterpillar is shown at work on the construction of its unusual cocoon. Life of the female tussock moth. Economic importance.		
25–531	**Beetles**	1	1.50
	Life histories of the tiger, ladybird and Japanese beetles. Many rarely observed events in their lives are presented. The economic relation of beetles to man is definitely portrayed. How some beetles have been pressed into the service of man, while others are harmful and must be destroyed through ceaseless warfare carried on by man.		

No.	Subject	No. Reels	Service Charge
25–532	**Pond Insects**	1	1.50

The diving water beetle, the mayfly, and the dragonfly, as representative of this group of insects. Their life cycles are portrayed, as well as their food habits and struggle for existence. Method by which the diving beetle lays its egg; a water larva attacking a large tadpole; the mayfly molting after acquiring wings; the mayfly hiding from its enemies; and the remarkable mask of the dragonfly nymph.

25–533	**Aphids**	1	1.50

The aphid's life cycle, showing how some are born alive, while others hatch from eggs; only a few have wings. Ants keep them as cows, while the aphid itself secures its food in an unusual way. It is beset by a host of enemies, among which is man.

25–534	**Spiders**	1	1.50

The nursery-web, the orb-web, the funnel-web, and the trap-door spiders. The complete life cycle of the nursery-web. Peculiar habits and characteristics of other spiders. The construction of an orb-web is shown through every step of the procedure. The retreat of the trap-door spider. After showing the spiders as home builders, their prowess as hunters or providers is demonstrated.

MUSIC

25–535	**The String Choir**	1	1.50

The string ensemble plays a selection from "L'Arlésienne" by Bizet. After the characteristics of the violin are explained a violinist renders a solo. In the same way the other instruments are presented. The camera is focussed at various angles to show technique involved in playing these instruments. A string quartet renders a part of the Haydn "Kaiser Quartet" and the scene of the Czardas from "Hejre Kati" by Hubay.

25–537	**The Brass Choir**	1	1.50

Here is presented the individual instruments of the brass choir—the cornet, trumpet, French horn, trombone, tuba, and their peculiar characteristics. Solo numbers represent the best compositions that have been prepared for the individual instruments. The ensemble plays the "March" and the "Pilgrims' Chorus" from "Tannhauser" by Wagner.

No.	Subject	No. Reels	Service Charge
25–538	**The Percussion Group**	1	1.50

The traditional snare, bass and kettle drums, the tambourine, cymbals, triangle, bells, and xylophone. The opening measures of music in this picture are played on the celesta—an instrument which pupils rarely have opportunity to examine. The camera brings each instrument close enough for detailed examination. Selections from Schubert, Chopin, Beethoven and Meyerbeer are used.

SCIENCE

PHYSICS

25–539	**Oxidation and Reduction**	1	1.50

The simultaneous process of oxidation and reduction first by burning phosphorus and rusting iron under experimental conditions. Mercury rust is then decomposed to discover the component of air responsible for oxidation. Other examples of oxidation and oxidizing-agents follow. The process of reduction in the operation of the blast furnace, magnesium burning in dry ice, and thermite welding. Everyday examples of oxidation and reduction.

25–540	**Molecular Theory of Matter**	1	1.50

Evidence of molecular activity in gases, liquids, and solids is presented in support of the molecular theory of matter. The diffusion of gases, the evaporation of liquids, and the transformation of liquids into solids, in terms of the theory. Machine gun illustration of the force exerted by molecules in motion, and the microscopic view of the Brownian movement, direct evidence of molecular motion.

25–541	**Electrostatics**	1	1.50

Deals with static electricity as fundamental to an understanding of the modern theories of electricity. It explains how positive and negative electrification are produced and by animated drawings shows the part played by insulators and conductors. Natural photography supplemented by animation gives a remarkable exposition of the movement of charges in the electroscope, the Compton electrometer, the static machine, and Nature's display of static electricity, lightning.

25–542	**Energy and Its Transformations**	1	1.50

Potential, kinetic and radiant energy, as manifested in mechanical, chemical, and thermal form. The principle of conservation of energy, and the concepts "power" and "work" are demonstrated in experiments. A review of present and future sources of energy.

No.	Subject	No. Reels	Service Charge
25–543	**Sound Waves and Their Sources**	1	1.50

Demonstration and explanation of several types of sound sources. The transmission of sound waves through the air. Characteristics of sound waves, such as frequency, amplitude, wave length, fundamentals, harmonics. The high-speed camera, animation, sound effects, and an oscilloscope are used to clarify these phenomena of sound.

25–544	**Fundamentals of Acoustics**	1	1.50

Hearing and the modification of sound between the source and the hearer are emphasized in this film. The specific elements explained or demonstrated are velocity of sound, refraction, range of hearing, lowering intensity, attenuation in air, eliminating high and low frequencies, reverberation and focussing of sound. Advances in communication which have resulted from combining our knowledge of sound and of electricity.

TRANSPORTATION

25–547	**Development of Transportation**	1	1.50

Transportation developments within the United States during the past one hundred fifty years. The physical barriers, the spread of the railroad network, and the subsequent highway development. Principal stages in the development of the locomotive and automobile. Modern transportation devices including the airplane are shown in relation to their potentialities and our dependence upon them.

25–557	**Highway Beautification**	2	1.00

Fine highways as the source of wealth, safety and beauty—roadside trees and plants—highway plant nurseries—plants suitable to localities—care of trees. Improving appearance of highway by bridges, overpasses, guard rails, parking areas, drinking fountains, auto camps, markets, attractive filling stations, mailboxes. Scenic views. Musical accompaniment by U. S. Navy band.

GEOLOGY

25–545	**Work of Rivers**	1	1.50

Erosion cycle of water on earth's surface. Water cycle in nature. Cycle of river from beginning to end. Examples from many parts of the country—falls, deltas, meanders, ox-bow lakes, rejuvenated rivers, lakes, water gaps, and sand bars.

No.	Subject	No. Reels	Service Charge
25–546	**Atmospheric Gradation**	1	1.50
	Numerous ways in which the atmosphere plays a part in altering the earth's surface. Temperature variations result in disintegration of rocks by spalling. Temperature variation together with chemical action of the atmosphere results in another type of disintegration called exfoliation. The action of the wind in eroding rocks. The movement of sand, loess, dust, and volcanic dust over great distances on the earth's surface is visualized.		
25–548	**Ground Water**	1	1.50
	Importance in changing the earth's crust. Phenomena that take place below the surface of the earth—artesian wells, springs, water table, caves and wells. Other phenomena such as geysers, springs, sink holes, petrifaction, concentration of useful minerals, and geode fillings, are explained and illustrated by outstanding examples in the United States.		
25–549	**Geological Work of Ice**	1	1.50
	A survey of the significant examples of the gradational work of ice. Story of glaciers, the types of formations, gradation and transportation by glaciers, topographical results of glacial activities as evidenced by moraines, eskers, striated and grooved rocks, cirques, hanging valleys and fiords; and the Pleistocene ice age.		
25–550	**Mountain Building**	1	1.50
	Significant events in geological history. Subsidence of the land about mouth of the Hudson River, story of Appalachian Mountains, and spectacular Lewis Overthrust in Rocky Mountains. A survey of evidence constituting the basis of these interpretations, and consideration of the significance of these phenomena to mining and structural engineering.		
25–551	**Volcanoes in Action**	1	1.50
	Evidence of past volcanic action with explanations of dikes, sills, laccoliths, metamorphism and the products of volcanism which are lava, cinder and ash. Causes and distribution of active volcanoes throughout the world. A subject that has stimulated man's imagination throughout history.		
25–560	**CCC Fights Erosion**	1	.50
	Causes and results of erosion; eroded gullies; stone and wooden check dams; planting trees; reclaiming an immense gully; mining with dynamite; music and explanatory lecture.		

SHORT SUBJECTS

No.	Subject	No. Reels	Service Charge
25–552	**Test Reel**	1	1.00
	Recordings of the piano, organ, orchestra and speaking voice.		
25–553	**El Terrible Toreador**	1	1.50
	A Walt Disney cartoon.		
25–554	**Springtime**	1	1.50
	A Walt Disney cartoon.		

FEATURE FILMS

25–450	**Touring Germany Today (Ufa)**	2	5.00
	A special tour taken by fifty professors and students from the United States through Germany. Berlin, Danzig, Tannenberg, Dresden, Weimar, Nuremberg, Rothenburg, Augsburg, Oberammergau, Munich, Heidelberg, Saar, the fertile grain fields of East Prussia, vineyards of the Moselle, Bavarian Alps, seaside resorts, harbors of Danzig and Hamburg, historic buildings, and natural scenery throughout Germany.	1200 ft. reels	
	Cougar	2	15.00
	A California nature film.		
	Black Beauty	2	15.00
	Oliver Twist	2	15.00
	The Sphinx	2	15.00
	Return of Casey Jones	2	15.00
	Officer 13	2	15.00
	Oh Yeah	2	15.00
	Air Eagles	2	15.00
	Phantom Express	2	15.00
	A railroad story.		
	Pardon My Gun	2	15.00
	A western without gun play.		
	Cowboy Counsellor	2	15.00
	A Hoot Gibson western.		

NOTE: All features are on two 1600-foot reels. They cannot be run unless projector is equipped to run 1600-foot reels. All films are talkies with lecture or dialogue (not merely musical entertainment).

35mm Silent Motion Pictures

35mm Silent Motion Pictures

AGRICULTURE

No.	Subject	No. Reels	Service Charge
1–8	**Fruits of Adventure** Prune industry of California.	1	.50
1–13	**Dairy Cattle and their Selection** How constitution, feeding capacity, formation of milking organs, etc., affect production.	1	1.00
1–14	**Dairy Cattle—Types, Breeds, and Characteristics** How to distinguish the four leading breeds, the Ayrshire, Guernsey, Jersey and Holstein.	1	1.00
1–20	**Yoke of the Past** Modern farm methods and machinery compared with past methods.	3	1.50
1–18	**European Potash** German potash mines. Processes of conversion into commercial fertilizer.	1	Free
2–22	**A Day with John Burroughs** A record in color of a visit to the Burroughs home.	1	.50
2–2	**Luther Burbank** A day at home with Luther Burbank.	½	.50
11–15	**Farmers of Formosa** Growing of sugar cane, tea, rice.	1	.50
1–11	**Birds of a Feather** Modern duck farm. Raising China pheasants. Pigeons.	1	.50
16–33	**Romance of a Lemon, The** Lemon growing and packing.	1	.50

ASTRONOMY

(See page 125)

AUTO MECHANICS

No.	Subject	No. Reels	Service Charge
9–8	**Elements of the Automobile**	6	5.00
	Reel 1—The Running Gear and Differential.		or $1.00
	Reel 2—The Running Gear and Differential Gear (Concluded).		per reel
	Reel 5—The Carbureter.		
	Reel 6—The Fuel System and Ignition.		
	Reel 8—Ignition (Concluded).		
	Reel 10—The Transmission.		
	A complete set of continuity or title sheets, covering the entire course, will be sent upon request.		
16–41	**Packard Motors**	6	3.00
	Steps in manufacturing an automobile.		per week

ELECTRICITY IN THE MOTOR CAR

9–16	**Electrical Units of the Motor Car**	1	.50
9–17	**Starter Generator, The**	1	.50
9–18	**How the Generator Works**	2	1.00
9–19	**Ignition**	2	1.00

BIOGRAPHY

(See pages 102–105; 113–114; 128)

BIOLOGY

(See page 125)

CIVICS AND CITIZENSHIP

3–6	**Money Making Industry, A**	1	.50
	How gold and silver coins are made at Royal Mint, Ottawa.		
18–12	**Lawmakers of the Philippines**	1	.50
	Native members of Philippine Senate and House of Representatives. Government Buildings.		

No.	Subject	No. Reels	Service Charge
2–31	**Free Schools: The Hope of Democracy**	2	1.00
	Services which modern school performs. Taking care of children of women employed in industry, teaching trades and crafts, instructing in home-making, building character and personality, supervising physical as well as mental development, Americanizing immigrants, eliminating adult illiteracy, training machine-displaced laborers for new jobs, aiding in public emergencies, and feeding children of unemployed.		
18–9	**Gentlemen Cadets**	1	.50
	Royal Military Academy at Port Frederick, Ontario, Canada.		
16–86	**Home, Sweet Home**	1	.50
	Ceremonies during erection of model home (replica of Payne's "Home, Sweet Home") on White House grounds in Washington, D. C., President Harding attending.		

DOMESTIC SCIENCE

(See page 105)

ENGINEERING

10–31	**Panama Canal**	1	.50
	Steps in building. The completed canal.		
16–78	**The Span Supreme**	7	3.00
	Operations in construction of new Hudson River suspension bridge which will be repeated on Golden Gate Bridge.		per week
6–10	**The Greater Campus**	2	1.00
	Trip through various plants of General Electric Company. Assignments given "test men" or student engineers.		
5–3	**Conquest of the Cascades**	1	.50
	Constructing great tunnel in Cascade Mountains in Washington.		

FEATURE FILMS

Films listed below are SILENT. *If* SOUND FILMS *are desired, the Department of Visual Instruction will endeavor to book films desired.*

Practically all 35mm feature films are out of circulation.

7–13	**Snow White**	3	3.00
	Dramatization of Grimm's fairy tale. Excellent for younger children, especially of the third and fourth grades.		

No.	Subject	No. Reels	Service Charge
7–14	**The Goose Girl**	3	3.00
	Dramatization of Grimm's fairy tale. Particularly good for children of the fourth and fifth grades.		
7–15	**The Old Woman of the Wood**	3	3.00
	Dramatization of Grimm's fairy tale. Particularly good for children of the fourth and fifth grades.		
	†Einstein's Theory of Relativity	2	5.00
	A shorter presentation.		

SHORT SUBJECTS

	Bray Cartoons (one reel of three short subjects)	1	1.00
7–1	**Felix Goes Hungry**	1	1.00
7–2	**Felix Strikes It Rich**	1	1.00
7–7	**Felix Cops the Prize**	1	1.00
7–25	**Alice's Orphan**	1	1.00
7–35	**Alice on the Farm**	1	1.00
7–37	**Alice Hunting in Africa**	1	1.00
7–45	**Terrible Three (Tony Sarg Cartoon)**	¾	.50
7–48	**The Cure (Inkwell Cartoon)**	1	.50
18–3	**The Sculptor's Art**	1	.50
	Pursuit of a single piece of work from conception to completion. Making copper plate engravings. Making stained glass windows. French chefs sculpturing in sugar.		
18–25	**Imitators of Nature**	1	.50
	Imitating nature with blown glass, plaster of paris, paraffin, etc. Making glass flowers and models of rare undersea life. Modeling the giant magnolia. Artificial cherry branch. Butterfly trays.		

† Payment in full must be sent with the orders for this service.

The exhibitor must also file with the Extension Division for each 35 mm. feature film booked, a statement as follows:

"In addition to the terms of the contract hereunder provided it is agreed that the positive prints furnished by the Distributor are to be handled and projected in strict accordance with all local ordinances for the handling and projecting of motion picture film, the projection of such motion picture film to be handled by experienced operators and to be projected from a fireproof booth in conformity with the code of the National Board of Fire Underwriters, and in strict compliance with all State and local ordinances for the projection of motion picture film."

.....

Exhibitor's Signature.

No.	Subject	No. Reels	Service Charge
18–35	**Brush and Knife**	1	.50
	Artist reproducing Mexican life in wax. Art of carving ships. Carving ornaments out of cocoanuts and images out of vegetables.		
18–40	**Artists at Work and Play**	1	.50
	Famous artists at work and play. Gutzon Borglum, Alexander Sambugnae, H. M. Linding, and Count Ilya Tolstoy. An artist who creates masterpieces with jute, hemp and whipcord. Scenes in Berkshire Hills, Massachusetts.		
7–26	**Rose of Monterey, The**	½	.50
	A short story of Spanish California.		
7–32	**Princess' Necklace, The**	4	4.00
	A fantastic tale of search of mortals for happiness. Excellent for small children.		
7–38	**Night Before Christmas, The**	2	3.00
	Picturing the poem.		
7–46	**America's Heritage**	2	1.00
	A motion picture letter of a Boy Scout to his mother, telling adventures on a camping and motor trip.		
18–2	**Trail of the Gods**	¾	.50
	Beautiful cloud effects in Swiss Alps.		
1–6	**Prodigal Palms**	1	.50
	Peoples of world in palm regions: South Seas, South America, Arizona Desert.		
16–78	**The Span Supreme.** (See page 81)	7	3.00 a week
23–72	**Denmark.** (See page 91)	11	5.00 a week or 50c a reel
23–69	**Faroe Islands.** (See page 91)	5	2.50
23–71	**Faroe, Iceland and Greenland**	4	2.00
18–27	**Menace of the Mississippi.** (See page 126)	2	1.00
7–5	**Football Fundamentals.** (See page 120)	2	2.00
	Chronicles of America Photoplays. (See pages 102–104)	3 and 4	11.00
	Formosa Series	6	1.00 each
	See Geography (Formosa)		
10–135	**Trail Mates.** (See page 94)	4	4.00

FORESTRY

No.	Subject	No. Reels	Service Charge
8–1	**Conquest of the Forest**	1	.50
	Lumber industry of great Northwest.		
8–2	**When Trees Talk**	1	.50
	Processes in making paper. Causes of forest fires.		
8–7	**Lumbering—Miscellaneous**	1	.50
	From log train to sawmill. New method of removing tree stumps. Tree surgery. Balso wood.		
8–8	**Timber Industry, Western Australia, Tasmania**	1	.50
	In hardwood forests of Western Australia. Scenes in Tasmania.		

GEOGRAPHY

AFRICA

ALGERIA

13–53	**Biskra, The Beautiful Oasis**	1	.50
	Date caravans. Goat herds. Arabian horses. Scenes in Biskra. Types of Arabs.		
13–48	**City of Algiers, The**	1	.50
	Harbor. Boatmen. Wharves. City streets and native markets. The Grand Mosque. Types of natives. Home life.		

EGYPT

13–6	**Alexandria**	1	.50
	Harbor. Modern docks and warehouses. Palace of Mohamet Ali. Native police. Pompey's Pillar and Sphinx.		
13–10	**Bazaars of Cairo, The**	1	1.00
	Street scenes. Minarets. The faithful at prayer. Merchandise of Bagdad and Manchester.		
10–1	**Road to the Pyramids, The**	1	.50
	Tombs of the Mameluke Sultans. Crowded streets of Cairo. Road to Pyramids. Caravans. Along the Nile. Ancient methods of agriculture. The Great Pyramids. Arab guides.		
13–12	**Cairo and Algiers**	1	.50
	Streets of Cairo. Fire Department. Modes of transportation. Funeral cortege. Market. Panorama of Algiers. Modern buildings and narrow streets. Types of natives. Nine statues of King Chepren.		

MOROCCO

No.	Subject	No. Reels	Service Charge
13–69	**Morocco, The Mysterious**	1	.50
	Panorama of city of Fez. Narrow streets. Battlemented walls. Shops and markets. Shoemakers. Minarets. Mechouar Gate. Mosque of Moulai Ildris. Public squares.		

TUNIS

13–3	**Kairawan, Sacred City of Tunis. The Gabes Oasis**	1	.50
	Entrance to Kairawan. Main thoroughfare. Mosques. An inn. Camel market. Scenes in village of Gabes. Bedouins. Gathering date harvest. Making urns. Camels.		

FRENCH WEST AFRICA

13–5	**Timbuktu. Down the Senegal River**	1	.50
	Panorama of Timbuktu. Mosque. Street scenes. Camel corral. Market place. Open air bakery. Moorish types. Desert nomads. Cities along Senegal River. Kayes, Medina, Podor, and Port of St. Louis.		

ASIA

CHINA

10–91	**Balling the Junk**	1	.50
	Junks on Yangtse River. Port of Itchang. Villages along the banks. Through high mountains. Trackers towing junks. Wanshien.		
13–76	**Catching up in Canton**	1	.50
	Modern Canton. Shipping on Pearl River. Skyscrapers and public buildings. Razing the old wall. Street scenes in old Canton. Girls' school.		
10–81	**Coveted Shantung**	1	.50
	Street scenes. Junks in harbor. Transportation by "coolies." Making iron in ancient blast furnace. Primitive methods in lumber industry. Ancient brick kiln. Primitive laundry.		
10–4	**Mukden and the Far East**	1	.50
	City Gate. Railroad depot. Crowded trains. Ancient walls. Emperor's palace. Stores. Making clay tiles. Making pottery.		

EAST INDIES AND SOUTH SEA ISLANDS

(See page 99)

FEDERATED MALAY STATES

No.	Subject	No. Reels	Service Charge
10–61	**Memories of Old Malacca**	1	.50
	Straits of Malacca. Fishermen. Palm fringed river. Malacca City. Native and Chinese stores. Native homes. Game of "toe-golf."		
13–70	**Port of Penang, The**	1	.50
	Georgetown's port. Chinese junks. Exporting rubber, tin, and copra. Scenes in Penang. Public buildings. The Bund. Street life. Temples, shrines, and mosques. Types of natives.		
10–62	**Quaint Quala Lampur**	1	.50
	Public buildings. Types of natives. Street market. Mixing curries. A mongoose. Old moats. Transportation. Floating homes of river people. Moslem temple.		
11–19	**Souvenirs of Singapore**	1	.50
	Harbor. Chinese stores. Hindu temple. Bazaars. Street scenes. Junks and lighters. Tapioca industry. Types of natives.		
10–63	**With the Sultan of Perak**	1	.50
	Palace. Scenes along Perak River. Tamil types. The sari worn by women. Ballet dancers. Orchestra. Mosque of Perak.		

FORMOSA

13–80	**Taihoku, Metropolis of Formosa**	1	.50
	On Tamsui River. Scenes in Taihoku. Administration Building. Parks, fountains and avenues. Festival.		
11–14	**Salt of Anping, The**	1	.50
	Types of toilers in Formosa. Fishermen. Making lanterns. Women spinning. Weaving hats. Buddhist temple. Chinese junks. Evaporating sea water for salt.		
11–15	**Farmers of Formosa**	1	.50
	Sugar cane, tea, and rice growing.		
10–54	**Filming Ferocious Formosans**	1	.50
	Hill tribes near Taihoku. Types of natives. Tattooing. Chinese lowland population. Moon festival.		

INDIA

10–130	**Bombay**	1	.50
	Residences. Docks. Bazaars. Scenes along railroad. Ellora caves and shrines at Manmad. Kailas Temple. Sasboua Temple at Givailor. Holy festival of Kreshast Alwar.		

No.	Subject	No. Reels	Service Charge
13–23	**Benares**	1	.50
	The River Ganges. Crumbling temples on banks. Natives bathing in sacred waters. Burning ghats. Mosque. Market place. Street barbers. Bazaars. Priests and fakirs. Pilgrims. Durga or Monkey Temple.		
10–80	**Taj Mahal, The**	1	.50
	Old fort at Agra. Native life. Pearl Mosque. Shrine of prayer. Shah Jehan's room. Taj Mahal. Mosques on either side.		
10–150	**Life in Hill Towns of India**	½	.50
	Ancient temples and ruins. Simla: rickshaws, silversmith's shop, grinding grain by hand, road building. Fakirs and monks. Goat and human transportation.		
10–131	**Mystic India**	1	.50
	Walls of Agra. Hall of a Thousand Pillars. Taj Mahal. Delhi. Shrine of Nizam-U-Deen. Udiapur. Benares. Temples and burning ghats along Ganges. Calcutta. Scenes on Hoogly.		
10–149	**Old and New India**	1	.50
	Similar to "Vagabonding in India." Bathing in Ganges, dancers, sacred pigeons, native troops, fakirs, religious procession, elephants.		

JAPAN

13–49	**Tokyo**	1	.50
	General view of Tokyo before great earthquake.		
23–26	**Kyoto**	1	.50
	Temples and pagodas. Sacred dance. Village of Yase. Picking tea.		
23–24	**Nikko**	1	.50
	Shrines of Nikko. Nikko Mountains in winter. Lake Chuzenu. Kegon Waterfall. Sunset on lake.		
18–31	**Japanese Festivals**	1	.50
	Yokohama's playgrounds. Acrobats. Rice festival. Shuttle-cock.		
10–53	**Rice Fields and Rice-fed Wrestlers**	1	.50
	Women irrigating and weeding rice fields. Threshing. Drying grain. Baling. Winnowing. Making rice cakes. The wrestling matches—Japan's major sport.		
23–18	**Scenic Classic, A**	1	.50
	A cruise of the Inland Sea.		

No.	Subject	No. Reels	Service Charge
13–78	**Tokyo, The Metropolis**	1	.50
	The jinrikisha. Holiday festival. Busy streets. Camel-back bridge. A patriotic holiday on Shokansha.		
10–50	**Vagabonding in Japan**	1	.50
	Temple of Mizusawa. Ainu dancing girls. Rice festival. Girls playing games. Wrestling and jiu-jitsu. Japanese acrobats.		
18–75	**Gaping Gullets of Gifu**	1	.50
	Fishing with cormorants near Gifu.		

KOREA

13–109	**Singular City of Seoul, The**	1	.50
	Native types. Streets. Bank of Korea. Costumes. Palace of ex-emperor. Table etiquette.		

PALESTINE

(See pages 122–124)

PHILIPPINE ISLANDS

18–12	**Lawmakers of the Philippines**	1	.50
	Native members of Philippine Senate and House of Representatives. Government Buildings. Old walls of Manila. Don Emilio Aguinaldo. Sultan of Sulu and his body-guard.		
18–73	**Oriental College Boys and Girls**	1	.50
	University of the Philippines, at Manila. Campus views. Dormitories. Glee and Dramatic Clubs. Cadet Corps. Church of Santo Tomas, oldest seat of learning in Philippine Islands. Normal School.		
10–84	**Pasig River, The**	1	.50
	The Pasig. The Escolta. The Bridge of Spain. Scenes along water front. Water buffalo. Native dwellings. Markets.		
13–108	**Venice of the Orient**	1	.50
	Manila. Shipping. Old lighthouse. Docks. Canals. Pasig River. Bilibid Prison. Rice paddies.		
10–51	**Around About Manila**	1	.50
	Piers. Native sports. Shrine at Antipolo. Fort McKinley. Scenes in Cavite. Old walls of Manila. Taft Avenue. The Escolta.		
11–10	**Luzon Lingerie**	1	.50
	Designing patterns and cutting stencils. Making lingerie. Making Panama hats.		

No.	Subject	No. Reels	Service Charge
10–104	**Mountain Tribes of Luzon**	1	.50
	Life among Ifugaos and Igorottes. Village. Types of natives. Rice paddies. Native dance.		
10–52	**Moros of Mindanao**	1	.50
	Gathering of Moro tribal chiefs. Boats. Pledging loyalty to United States.		

SIAM

13–83	**Ayudhya—The Siamese Venice**	1	.50
	Grand Canal. Floating market and cafeteria. Fighting fish. Riverside Temples.		
13–81	**Bangkok, the Royal City**	1	.50
	Piers and shipping. The Broadway. Types of natives. Public buildings and plaza. Officials.		
10–66	**In Siamese Society**	1	.50
	Mode of dress, eating, salutation, and other courtesies.		
13–82	**Kingdom of the Yellow Robe, The**	1	.50
	Worshippers. Royal Temple. Sacred Dancers. The Ankor Wat. Royal Palace. Street scenes. A street vaudeville show. Golden and tinted pagoda with mosaics.		

TURKEY

10–15	**Galata Bridge**	1	.50
	Types of people crossing Galata Bridge into Stamboul. Hamals, Turks, Greeks, Armenians, and Europeans. Native peddlers, soldiers, ox teams.		
10–16	**Seen in Smyrna**	1	.50
	Transportation. Raising sheep, goats, etc. Making mats. Oriental rug manufacture. Scenes of rural life.		
13–74	**Stamboul**	1	.50
	Mosques. Shops. Through Turkish streets. The Serasher Tower. The Mosque Santa Sophia. Mosque of Sultan Ahmed.		

EUROPE

AUSTRIA-HUNGARY

10–136	**Children of Hungary**	1	.50
	City and peasant children at work and at play.		

BALKANS

10–143	**Serbia**	1	.50
	Map. National costume. Streets of Belgrade. Types. Peasant homes. Montenegrins.		

No.	Subject	No. Reels	Service Charge
10–139	**Children of the Balkans**	1	.50
	Armenian, Albanian, Roumanian, Bulgarian, Serb, Greek, and Turk children in native costumes, at work, at play, and in school.		
10–8	**Children of Roumania**	1	.50
	Boys and girls busy at home industries.		
10–49	**Vagabonding Through the Balkans**	1	.50
	Miscellaneous scenes in Albania, Montenegro, and Serbia.		

BELGIUM

13–87	**Beautiful Bruges—Liege Today**	1	.50
	Medieval structures. A Kermesse or festival. The Town Hall, 1376. Canals. Zee-Brugge. Liege.		
13–88	**Bustling Brussels**	1	.50
	King Arthur's Palace. Royal Guards. Bourse. Business streets. Making Brussels lace. Palace of Justice. Guild Houses. Hotel de Ville.		
13–86	**Artistic Antwerp**	1	.50
	Cathedral. River Scheldt. City Hall. Statues of Reubens and Brabo. Flemish types. Art Museum. Lion of Brabant.		

BRITISH ISLES

10–32	**Coast Towns of England**	1	.50
	Scilly Islands. Old village of St. Mary's. Oyster fishing at Whitsable. Fishing fleet. Packing catch. Yarmouth. St. Michael's Mount.		
10–112	**On the River Conway**	1	.50
	Scenes in Wales.		

CZECHO-SLOVAKIA

10–37	**Children of Bohemia**	1	.50
	In costume at work and at play.		
10–70	**Country Life in Bohemia**	1	.50
	Bohemian village. Raising sheep, potatoes, sugar beets. Wayside shrine. Festival.		
13–91	**Present Day Prague**	1	.50
	Business streets. Museum. Statue of John Huss. Town hall. National Theatre. Vltava River. Charles Bridge. Castle.		

DENMARK

No.	Subject	No. Reels	Service Charge
23–72	**Denmark**	11	5.00
	(Reels may also be ordered by groups at 50c a reel.) Reels I and II. Danish traditions, scenery, life. Reels III and IV. Danish agriculture. Cattle, pigs, poultry. Grain, Hay, gardening. Agricultural colleges. Reels V, VI, and VII. Danish industries. Manufacture of milk products, sugar, chocolate, edible oils, beer, yeast, garments, metal products, electric goods, machinery, matches, pencils. Quarries. Shipping. Reels VIII, IX, X, XI. Copenhagen. Danish scenes, life, sports, foreign trade, possessions.		a week or 50c a reel
23–71	**Faroe, Iceland and Greenland**	4	2.00
	Tour of King and Queen of Denmark to Danish possessions. Scenery, houses, peoples, costumes, sports. Eskimos of Greenland.		

FAROE ISLANDS

23–69	**Faroe Islands**	5	2.50
	Scenery. Industries: sheep-raising, farming, whaling, codfishing, fowling. Folk dances, costumes. Bird life.		
23–71	**Faroe, Iceland and Greenland**	4	2.00

FRANCE

10–42	**In Finistere**	1	.50
	Ports near Breton peninsula. Sardine fishing. Market day. St. Ronan's Well. Pilgrimage to St. Ronan's Shrine. Streets of Plougaster. Bridal procession.		
13–94	**Marseilles**	1	.50
	Boulevard. Inner harbor. Suspended bridge. Shipping. Old buildings along quay. Outer harbor. Church of Notre Dame de la Garde. Incline railroad. Panorama of city.		
10–108	**Monte Carlo (colored)**	1	.50
	St. Devote Church. Homes. Old fort. Palace. Cathedral. Oceanographic Museum. Cafe de Paris. Casino. Hotel de Paris.		
23–31	**Along the Riviera**	1	.50
	Azure Coast. Villas and Roman ruins. Rocky shores. Military road of Caesar.		
13–13	**Bordeaux to Paulillac. La Grande Chartreuse**	1	.50
	River front. Pont de Bordeaux. Place des Quinconces. Monument des Girondries. Down Gironde River to Paulillac. Monastery at La Grande Chartreuse.		

No.	Subject	No. Reels	Service Charge
13–14	**La Rochelle. Along the Theve River. Monaco**	1	.50
	Harbor of La Rochelle. Wharves. Town Hall. Fishing fleet. Scenes along Theve River near Chantilly. Casino at Monaco. City of Mentone. Yachting.		
13–96	**Monte Carlo**	1	.50
	Oceanographic Museum. Rock of Monaco. Castle. Touring town by trolley. Casino. Scenes at Nice.		

GERMANY

10–140	**Children of Germany**	1	.50
	At school, at home, and in parks at play.		
13–17	**Berlin**	1	.50
	Street scenes. Unter den Linden. Brandenburg Arch. Pariser Platz. Reichstag. Bismarck and Victory Monuments. Schloss Platz. Cathedral. Potsdam Platz. Museum. National Gallery.		

GREECE

10–132	**Greece**	1	.50
	Acropolis. Parthenon. Propylaea. Erechtheum. Porch of Caryatides. Trescion. Temple of Zeus. Street scenes in Athens.		

ITALY

10–73	**Lake Maggiore**	1	.50
	Islands, Villas and Castles. Villages.		
13–24	**Verona and Venice**	1	.50
	Old battlemented bridge at Verona. Cathedral. Fruit and vegetable market. Medieval architecture. The Grand Canal in Venice. Narrow by-ways. Campanile, St. Marks, and Palaces of the Doges.		
10–74	**Seeing San Marino**	1	.50
	The frontier. Types of natives. The city. Medieval towers. Borgo, the commercial center. Agriculture.		
10–46	**Vagabonding in Italy**	1	.50
	Miscellaneous scenes in Rome, Verona, Pisa, Naples, Venice, and Tuscany.		

NORWAY AND SWEDEN

10–138	**Children of Scandinavia**	1	.50
	Children of mountain and city in picturesque dress. Laplanders. Folk dancing.		

No.	Subject	No. Reels	Service Charge
13–32	**Christiania** ..... Harbor, business district, government buildings, parks.	1	.50
13–34	**Stockholm** ..... Harbor and shipping. The Noorbro (bridge). Government buildings. Museum. The King's Guard. Street scenes.	1	.50
10–145	**Norway** ..... Map. Rugged coast. Peasant homes. Folk dancing. Spinning and weaving. Fjords. Midnight sun.	1	.50
10–40	**Winter in Norway and Sweden** ..... Scenes along Dakland Canal. Lumber industry. Frozen waterfalls. Reindeer. Skiing. Harvesting ice.	1	.50

POLAND

10–137	**Children of Poland** ..... Boys and girls of peasant homes. In fields. Spinning. Tending geese. With dairy herds. To church in colorful costumes.	1	.50
13–11	**Warsaw** ..... Street scenes. Tenements. Vistula River. Principal streets and buildings. Jewish merchants.	1	.50

SPAIN

13–100	**In Old Granada** ..... The gates. Panorama. The River Darro. Moorish architecture. The Alhambra.	1	.50
13–104	**Palma de Majorca** ..... Panorama of city and harbor. Natives. Rural life. Convent. Village life. Moorish watchtowers.	1	.50
12–102	**Toledo and Segovia** ..... Map. Approach to Toledo. Old Moorish walls. Royal Alcazar. Cathedral. Panorama of Segovia. Roman aqueduct. Alcazar.	1	.50
12–28	**Pyrenean Perspectives** ..... Mountains. Towns. Peasants. Sheep and cattle. Hamlets and wayside shrines.	1	.50
13–99	**Seville in Fair Time** ..... Soldiers. Cathedral. Padro at height of merrymaking. Dancing.	1	.50

No.	Subject	No. Reels	Service Charge
13–27	**Queen City of Catalonia**	1	.50
	Barcelona. Cathedrals and shrines. Streets. King's visit. Religious shrines on Mount Serrat.		

SWITZERLAND

12–12	**In the Swiss Alps**	2	1.00
	Ascents of Mont Blanc and the Jungfrau.		
12–33	**Perils of the Alps**	1	.50
	Ascent of Blumlisalp.		

NORTH AMERICA

ALASKA

10–45	**Alaska**	1	.50
	Inland Passage. Wrangell, Petersburg. Taku Glacier. Skagway. White Pass. Hydraulic Mining at Atlin. Atlin Mountains from Lake Atlin.		
10–135	**Trail Mates**	4	4.00
	Adventures of Captain Jack Robertson and dog, Wrongstart, in Alaska. Wild life and scenery.		

CANADA

23–13	**Algonquin Park—Land of a Thousand Lakes**	1	.50
	Wild life north of Toronto. Canoeing.		
10–121	**Along the St. Maurice River**	1	.50
	City of Three Rivers. Paper mill. Shawinigan Falls. Hydroelectric and electro-chemical plants. Portaging pulp timber. Grand Mere Falls.		
10–126	**Apples of Annapolis**	1	.50
	Apple growing in Arcadia.		
23–4	**Athabaska Trail, The**	1	.50
	Film version of Sir Arthur Conan Doyle's poem, "The Athabaska Trail."		
10–117	**Cabin Camps in Skyland**	1	.50
	Windemere country. Sinclair Creek. Radium Springs. Kotenay Park. Storm Mountain Camp. Marble Canyon. Wapta Camp. Lake O'Hara. Yoho Camp. Takataw Falls.		
10–122	**Camping Among the Snow Peaks**	1	.50
	Gateway to Rocky Mountain National Park. Banff, Sulphur Springs plunge. Hotel. Bison, elk, and mountain sheep. Moraine Lake and Valley of Ten Peaks. Giant Stairway. Great Divide. Athabaska Glacier.		

No.	Subject	No. Reels	Service Charge
23–22	**Climbing Up Into Canada's Past**	1	.50
	Illecillwaet Glacier. Mount Sir Donald. Lake of Tumbling Glaciers.		
23–21	**Higher Life, The**	1	.50
	Canadian Rockies. Horsethief Creek. Peacock Falls. Lake of Hanging Glaciers. Mount Commander. Mount Farnham. Mount Delphine.		
10–13	**Land of Arcady**	1	.50
	Ice hummock along St. Lawrence. Winter sports in Quebec. Life in French Canada. Weaving and spinning. Plowing with oxen. Religious festival.		
12–1	**La Roche Percee**	1	.50
	Picturesque village on Gaspe Coast. Quaint costumes and customs.		
10–28	**Maritime Provinces**	1	.50
	Halifax. Cape Breton Isle. Chester. Apple blossom time. Charlottetown. Blue fox farming. St. John. Reversible Falls. Fredericton.		
13–112	**Montreal—Canada's Metropolis**	1	.50
	Cathedral of Notre Dame. Bousecouss Church and market. Chateau de Ramezay. City park. Panorama of city from Mount Royal. Harbor. Public library. Victoria Jubilee Bridge.		
10–123	**Mountaineering Memories**	1	.50
	Ascent of Mount Assiniboine.		
10–127	**Mountain Memorial, A**	1	.50
	Mount Edith Cavell in Jasper National Park.		
13–66	**Quebec Byways**	1	.50
	Chateau Frontenac. City and waterfront. Old market. Avenue des Braves. Plains of Abraham. Old citadel. St. Louis gate. Old hamlet of St. Gregoire. Life on the Isle d'Orleans.		
13–111	**In Old Quebec**	1	.50
	Dufferin Terrace. Monuments to Champlain, Wolfe, and Montcalm. Court House. Grand Alle and St. Louis Gate. Provincial Parliament Building. Quaint old streets.		
10–119	**Ridin' Round**	1	.50
	In Yoho Valley. Lakes O'Hara and McArthur. Emerald Lake. Twin Falls and Takataw Falls.		
10–129	**River of Deep Waters**	1	.50
	Up River Saguenay. Capes Trinity and Eternity. Village of L'Arise St. Jean. Old settlement of Tadousac. Old Jesuit chapel.		

No.	Subject	No. Reels	Service Charge
23–38	**Scenic Wonderland, A**	½	.50
	Jasper National Park. Lake Beavot. Old Man Mountain. Bear cubs. Pyramid Mountain. Malign Canyon. Mount Hardesty and Mount Edith Cavell.		
10–125	**Seaside Summerland, A**	1	.50
	Along Nova Scotia's south shore. Yarmouth. Fishing. Shelbourne. Liverpool. Bridgewater. Along La Have River. Petite Riviere. Lunenburg and Chester.		
23–58	**Through the Norway of America**	1	.50
	Through Inland Passage.		
10–116	**Totem Land**	1	.50
	Vancouver Island. Clayoguot. Fishing boats. Paper mills. Mines. Nootka cemetery with weird totems. Totems at Fort Rupert.		
23–8	**Valley of a Hundred Peaks**	1	.50
	Tonquin Valley, Alberta. Whistler's corral at Jasper. Loading pack animals. On trail. Portal Valley. Maccarib Pass. Valley of One Hundred Peaks. Surprise Point. Amethyst Lake.		
23–12	**Valley of the Yoho, In the**	1	.50
	Ascending Wapta Pass. Summit Lake. Mount Vice-President. Glaciers. Falls.		
10–128	**Where Lake and River Meet**	1	.50
	Kingston. City Hall. Princess Street. Public market. Queen's University. Tete de Pont Barracks. Factories. Grain elevators. Shipbuilding.		
23–5	**Where Salmon Leap**	1	.50
	Angling for salmon on Restigouche River. New Brunswick.		
23–27	**Winter Sports in Canada**	1	.50
	Winter sports in Quebec and Montreal.		
	GREENLAND		
23–71	**Faroe, Iceland and Greenland**	4	2.00
	Tour of King and Queen of Denmark to Danish possessions. Scenery, houses, peoples, costumes, sports. Eskimos of Greenland.		
	GUATEMALA		
13–67	**Antigua**	1	.50
	Mount Aqua. Extinct volcano. Old church ruins. Plaza. Market place. Native life.		
10–109	**Marimba Land (colored)**	1	.50
	Village life. Village well. Homes. Grinding corn. Bullock carts. Market place. Customs. Marimba playing.		

MEXICO

No.	Subject	No. Reels	Service Charge
10–85	**Along the Rio Grande**	1	.50
	Desert. Albuquerque. Indian pueblo. Indian festival.		
11–8	**Mexican Oil Fields**	1	.50
	Derricks. Drilling. A gusher. Well on fire. Fire precautions. Building tanks and laying pipes. Refinery.		
13–105	**Torrid Tampico**	1	.50
	Modern business structures. Central Plaza. Panuco River.		

PANAMA CANAL

10–31	**Panama Canal**	1	.50
	Steps in building canal. The completed canal.		

UNITED STATES

10–113	**Electric Ship, The**	2	1.00
	Trip from New York to San Francisco on S. S. Virginia. Deck sports. Havana. Panama Canal. Up western coast. Golden Gate.		

California

23–25	**Glimpses of the Yosemite**	1	.50
	Falls, trails, and main features of Yosemite Valley. Big Oak Flat Road. Tuolumne Big Trees. Tenaya Lake. Morro Lake. Wawona Big Tree.		
23–15	**The King's Highway**	1	.50
	California missions along El Camino Real: San Juan Capistrano, San Fernando, Santa Barbara, Santa Ynez, Carmel.		
23–39	**Redwood Empire Travel Thrills**	2	Free
	Scenes of interest in Redwood Empire; outdoor recreation haunts: swimming, fishing, boating in ocean, and in mountain streams; comprises San Francisco, Marin, Sonoma, Napa, Lake, Mendocino, Humboldt, Del Norte, and Josephine (Oregon) counties.		
23–19	**Six-Day Saddle Trip in the High Sierras, A**	1	.50
	From Yosemite Valley to High Sierra camps. Scenery. Camps, entertainment, fishing.		
23–11	**Trip from Merced to Yosemite, A**	1	.50
	Scenic drive from Merced to Yosemite.		
23–33	**Winter Sports in Yosemite**	1	.50
	Skiing, skating, tobogganing, etc.		
23–23	**Over the Tioga Pass**	1	.50
	From Yosemite to Lake Tahoe over the Tioga Pass.		

Eastern States

No.	Subject	No. Reels	Service Charge
13–38	**East Side—West Side**	1	.50
	A comparison between tenement and better residential districts in New York City. Harlem. The Ghetto. West of Fifth Avenue.		
12–2	**Niagara, the Glorious**	1	.50
	Detailed scenes of the famous falls. Cruising below the falls in the "Maid of the Mist." Rapids in the river. The Whirlpool. Queen Victoria Park.		

Southern States

23–1	**In the Blue Ridge Mountains**	1	.50
	Gathering holly and mistletoe. Dahlonega. Tiger Cove. Old natives at trades. Grant's birthplace. Lookout Mountain, Tenn.		
23–9	**Land of the Sky**	1	.50
	Along Swananoa River in North Carolina. Rhododendron. Dry Falls. Blue Ridge Mountains. Cherokee Indian Reservation.		
23–10	**Suwanee River Folks**	1	.50
	Headwaters of Suwanee River. Cotton and cane fields. Negro huts. Lumbering.		

Western States

CALIFORNIA (see page 97)

18–70	**Indians**	1	.50
	Life among Arapahoe Indians. An Indian school. How to build a fire without matches.		
18–80	**America's Oldest Inhabitants**	1	.50
	Pueblo dwellings of Taos in northern New Mexico.		
12–24	**Rainier National Park**	1	.50
	Tacoma. "Iron Mike's" Spring. Nisqually Glacier. Paradise Valley and inn. Ski jumping. Narada Falls. Skyline Trail. Climbing Mount Rainier.		
12–7	**Rocky Mountains**	1	.50
	Class-room film giving general view of this great mountain system.		
12–14	**Seeing Yellowstone**	1	.50
	Geysers, Mt. Washburn, Lake Yellowstone, Grand Canyon of Yellowstone and Falls.		

No.	Subject	No. Reels	Service Charge
12–5	**Mountains and Lakes of the Northwest**	1	.50
	Wizard Isle and Pinnacles. Crater Lake. Elliot Glacier, Mount Hood. Lake Chelan. Columbia River Highway. Mountains in Washington.		
23–2	**Oregon's Earthly Paradise**	1	.50
	Columbia River Highway. Mitchell Point Tunnel. Multnomah Falls. Mount Hood. Mist Falls. Ascending Mount Hope.		
13–110	**Santa Fe, the City Different**	1	.50
	Old Santa Fe Trail. Old Plaza. Monument to Kit Carson. State Museum. Annual fiesta. Relics. Indian dances.		
	WEST INDIES		
10–38	**Porto Rico and Santo Domingo**	1	.50
	Native village in Porto Rico. Hillside plantations. Grass huts. Making pottery. Picking coffee. Santo Domingo. Tropical vegetation. Schools. Native life.		
	Bermuda		
10–39	**Beautiful Bermuda**	1	.50
	Hamilton. Wharves and shipping. Street scenes. Scenes about the island. Old Spanish fortifications.		
10–77	**Little Atlantis, A**	1	.50
	Map of Bermudas. St. George and Hamilton. Coral reefs from airplane. Tropical fish.		
	OCEANIA		
10–10	**Vagabonding in the South Seas**	1	.50
	Scenes in Pago Pago. Fishermen of Madeira, Dutch East Indies. Dances of Maoris. Festival in Java.		
	AUSTRALIA		
13–58	**Sydney—Its Harbors and Beaches**	1	.50
	Sydney Harbor from air. Circular Quay. Darling Harbor. Kifibilly Cove. Middle Harbor. Parks. Fort Denison. Government House. Beaches.		
	BORNEO		
10–134	**Bad Boys of Borneo**	1	.50
	Village. Chiefs. War dance. Warriors. Women. Using blow-gun.		
	FIJI ISLANDS		
10–78	**Firewalkers of Beqa**	1	.50
	Fiji Islands. Meke-Meke dance. War dance. Walking on fire.		

HAWAII

No.	Subject	No. Reels	Service Charge
10–152	**The Hawaiian Islands**	1	.50
	Agriculture, industries, inhabitants. Sugar cane, pineapple and rice culture, stock raising. Racial mixtures. Natives, ceremonies and dances, dwellings.		
10–153	**Honolulu**	1	.50
	In and about Honolulu. Diamond Head. Waikiki.		
10–154	**Kilauea and Haleakula**	1	.50
	Craters. Other geological phenomena.		
10–133	**Hawaii Today**	1	.50
	Boat trip to Hawaii. Diamond Head. Native welcome. Beach at Waikiki. Honolulu harbor. Rice cultivation. Kilauea in action. Natives and native dances.		
23–28	**Aloha Land**	1	.50
	Hawaii. Life aboard steamer en route. Honolulu Harbor. Sightseeing in Honolulu and environs.		
10–155	**Beautiful Hawaii**	1	.50
	Scenic beauty of Hawaii. Sunsets and sunrises.		

JAVA

10–58	**Boro-Bodor and the Bromo**	1	.50
	Boro-Bodor. Bagendit Lake. Mount Goentoer. Active volcanoes.		
10–59	**Garden of the East, The**	1	.50
	Java. Along coast. Port of Tendjoeng. Gardens of Batavia. Botanical garden at Buitenzorg. Sugar cane. Javan band.		
11–17	**In Batik Land**	1	.50
	By rail from Batavia to Bandoeng. "Sado" or Javanese taxi. Modern buildings and native shops. Markets. Art of making batik.		
10–57	**Polynesian Odyssey, A**	1	.50
	Bali. Outrigger canoes. Grass dwellings. Money changer. Temples and shrines. Hulling rice. Harvest festival.		
11–16	**Rural Java**	1	.50
	Bombax-Pentandrum tree. Gathering bark of Chinchona or quinine tree. Rice. Bamboo.		
10–60	**Watching the Wayangs**	1	.50
	Djokjakarta. Market. Archery contests. Wayang-wayang or native movie shadow show.		

NEW ZEALAND

No.	Subject	No. Reels	Service Charge
10–97	**Among the Maoris**	1	.50
	Method of greeting. Along Wanganui River. Village surrounded by stockade. Maoris. Weaving. Carvings on houses. Chief's robes. War dance. Barbecue. Poi dance.		

SAMOA

10–141	**Samoan Follies**	1	.50
	Samoan dances. Mat weaving. Banana industry of Fiji. Native dances of Balinese. Glimpses of New Zealand.		
10–96	**Pigs and Kava**	1	.50
	Alasenga Island, Samoa. Tropical foliage. Native council house. Kava ceremony. Gathering kava roots. Talolo, or triumphant march. Knife dance. Native banquet.		
10–95	**Some More Samoa**	1	.50
	Village life. Making cloth. Weaving mats. Coiffure for ceremonial dance. Feast. War dance.		
10–14	**Yesterdays in Samoa**	1	.50
	South Pacific. Samoan chief. Taupo girls. Welcoming and entertaining guests. King's kava ceremony. Warriors of Savaii. War dance. Siva-Siva dancers.		

SOUTH AMERICA

BRAZIL

10–144	**Rambles Around Rio**	1	.50
	Trolley trip to suburbs. Tijuca, Sylvester, Nicheroy, and Paquato Island.		
12–29	**Cataracts of the Iguazu**	1	.50
	Through tropical jungles. Three cataracts of Iguazu.		
23–29	**Falls of the Parana River**	1	.50
	Brazilian jungles. An Indian village. The falls.		
23–32	**Lazing Under Tropical Skies**	1	.50
	Up Iguazu River in Brazil. Tropical dawn. Shooting rapids.		

GUIANA

10–89	**Through Guiana to Amazon Trails**	1	.50
	Essequibo River, Guiana. Shooting rapids. Natives. Jungles. Along Amazon trails to Andes. Cattle ranching along Orinoco River.		

PERU

No.	Subject	No. Reels	Service Charge
10–99	**High Life in Peru**	1	.50
	Southern uplands. Llamas. Mountain passes. Sheep herding. Native village of Cuzco. Market place. Native orchestra. Blanket sellers.		
10–90	**Vagabonding in Peru**	1	.50
	Lima. Monastery of barefooted friars. Harbor of Callao. Weaving ponchos. Llamas.		
12–31	**Up the Andes**	1	.50
	Lake Titicaca. Seat of ancient civilization. Island of Moon, Island of Sun. Natives: head gear, dance, preparing feast.		

HISTORY

CHRONICLES OF AMERICA PHOTOPLAYS

The Chronicles of America Photoplays, produced under the direction of the Yale University Press Film Service, depict events in American history from the voyage of Columbus to the close of the Civil War.

Painstaking work characterized every step in the production of the pictures. Not only each incident and action but every character and costume, setting, and implement, every custom and habit represent the careful study of specialists.

The series is designed to fit in with a general course in American history up to the close of the Civil War, and the length of each picture accords with a class-room period.

Teacher's aids in the form of historical outlines, complete title sheets, and references for each picture will be sent, upon request, to those using the Chronicles of America Photoplays.

All Yale Chronicles are on safety stock.

No.	Subject	No. Reels	Rental Price
14–13	**Columbus**	4	11.00
	Career of Columbus from 1485–1492. Betrayed by King John of Portugal, Columbus finally gains support of Queen Isabella, sails from Palos, and, after many dangers, lands on Watling Island.		
14–14	**Jamestown**	4	11.00
	Faithful representation of Jamestown in 1612. Daily life. Indian menace. Pocahontas story.		
14–15	**The Pilgrims**	3	11.00
	Separatists at Scrooby, England. Migration to Holland. Voyage of Mayflower and landing on Plymouth Rock. Hardships of first winter. Incidents revealing devotion to ideal of religious freedom.		

No.	Subject	No. Reels	Rental Price
14–16	**The Puritans**	3	11.00
	Economic background of Massachusetts Bay Colony. Life in 1630 in New England contrasted with English court life. Political motives behind Thomas Morton's efforts to bring about revocation of charter. Rise of dissension. Departure of Roger Williams. Leadership of Governor Winthrop.		
14–17	**Peter Stuyvesant**	3	11.00
	Outstanding events in New Amsterdam from 1653 to 1664. Life under Stuyvesant's rule. Preparations for battle with English, followed by bloodless surrender by Dutch.		
14–18	**The Gateway to the West**	3	11.00
	Story of Washington's experiences in 1753 in connection with conflict between English and French for territory west of Alleghenies. Life in old Virginia. Washington mission to protest French occupation of Ohio Valley. Battle of "Fort Necessity."		
14–19	**Wolfe and Montcalm**	3	11.00
	Bitter Franco-English struggle culminating in fall of Quebec in 1759. European political situation. Situation in New France. Military strategy of Wolfe. Battle on Plains of Abraham.		
14–20	**The Eve of the Revolution**	3	11.00
	Significant incidents of 1765–1775. Scenes incident to Stamp Act. Boston Massacre. Boston Tea Party. Salem Assembly. Rides of Revere and Dawes. Clashes at Lexington and Concord.		
14–21	**The Declaration of Independence**	3	11.00
	Struggles to bring about vote for independence. Influence of pamphleteers. Thomas Paine. Gatherings. Proceedings of Second Continental Congress on July 2 and 4, 1776.		
14–22	**Yorktown**	3	11.00
	War between January and October, 1781. Hardships of American troops. International aspects of campaign of 1781. Aid given by French. Surrender of Cornwallis.		
14–23	**Vincennes**	3	11.00
	Capture of Vincennes by Clark in 1799, after difficult march through wilderness.		
14–24	**Daniel Boone**	3	11.00
	Pioneer spirit as typified by Daniel Boone. After founding Boonesboro, Boone is captured by Indians, learns of threatened attack by French and Indians on Boonesboro, and escapes in time to save the settlement.		

	Subject	No. Reels	Rental Price
14–25	**The Frontier Woman**	3	11.00
	Heroism demanded of the frontier woman is exemplified by story of Wautauga settlement in Tennessee Mountains in 1780. Men leave to oppose English expedition, in face of threatened attack on settlement by Indians. Women left with boys and old men to ward off attack.		
14–26	**Alexander Hamilton**	3	11.00
	Hamilton's work during crucial post-war period in stabilizing currency and founding national financial system. Seen first as aide to General Washington, then at his inauguration, Hamilton becomes Secretary of the Treasury. The Whisky Rebellion and other problems.		
14–27	**Dixie**	3	11.00
	Story of civilian South throughout Civil War, revealing heroism of women and attitude of slaves. Experiences of typical Southern family.		
2–27	**Life of George Washington, Conquering the Wilderness**	1	1.00
2–28	**Life of George Washington, Uniting the Colonies**	1	1.00
2–29	**Life of George Washington, Winning Independence**	1	1.00
2–30	**Life of George Washington, Building the Nation**	1	1.00
	The above four films were made by Eastman Teaching Films, Inc., with the coöperation of George Washington Bicentennial Commission. Each reel is a unit in itself. Printed Teacher's Aids available. See page 3.		
14–7	**Cruise of the Mayflower**	1	.50
	Map showing course of Mayflower from Leyden. Old Provincetown on Cape Cod. Pilgrim Memorial Monument. Rocky coast. Plymouth Rock. Leyden Street, Plymouth. Burial spot of fifty pilgrims. Original home of John Alden.		
23–15	**The King's Highway**	1	.50
	California missions on El Camino Real: San Juan Capistrano, San Fernando, Santa Barbara, Santa Ynez, Carmel.		
14–2	**Permanent Peace**	1	.50
	Washington Disarmament Conference during President Harding's administration. Versailles Treaty Conference.		
2–1	**Benefactor, The**	2	1.00
	Life of Thomas A. Edison—early struggles in perfecting his greatest invention, the incandescent lamp.		
2–21	**Thomas A. Edison**	1	.50
	Methods employed in development of incandescent lamp. Edison's later life.		

No.	Subject	No. Reels	Rental Price
2–15	**Benjamin Franklin**	1	.50
	Home at Boston. Philadelphia Gazette. Public library. University of Pennsylvania.		
2–16	**Alexander Hamilton**	1	.50
	Island of Nevis. King's College (now Columbia), Weehawken, N. Y. Grave in Trinity Churchyard, New York City.		
2–17	**Thomas Jefferson**	1	.50
	William and Mary College. Independence Hall. University of Virginia. Monticello, Virginia.		
2–19	**George Washington**	1	.50
	Cambridge elm and inn. Valley Forge. Mount Vernon. Sub-treasury Building in New York City.		
2–20	**Daniel Webster**	1	.50
	Scenes of home life. Election to Congress. Congress today. Bunker Hill Monument. Statue of Liberty.		

HOUSEHOLD SCIENCE

(See also Industry and Business—Clothing and Textiles, Food and Fishing)

No.	Subject	No. Reels	Service Charge
16–20	**Silversmith, The**	1	.50
	Silver industry. Mining. Smelting. Making "sterling" silver. Making silverware. Comparison of ancient and modern methods of silversmithing.		
16–22	**Fine Arts in Metals**	3	1.50
	Manufacturing of bronze and silver statuary. Making table silver. Dining room appointments.		
16–43	**Story of Refrigeration, The**	2	1.00
	History of refrigeration from Egyptians to present. Manufacturing refrigerators.		
16–44	**Refrigerator Facts**	1	.50
	Constructing ice-box. Principles of refrigeration. Types of ice-boxes.		
4–1	**Golden Orange (colored)**	1	.50
	Introduction to California by padres. Orange growing. Uses in desserts and various dishes.		
4–2	**Oranges and How to Use Them (colored)**	1	.50
	Uses of oranges in fruit juices, desserts, salads, etc.		
4–6	**Indispensable Lemon**	1	.50
	Early Spanish Californians planted lemon trees. Modern lemon growing and packing. Various uses.		

HYGIENE AND PHYSIOLOGY

HYGIENE

No.	Subject	No. Reels	Service Charge
15–4	**Dental Nutrition**	3	1.50
	Relation of diet to health of teeth. Recent experiments of noted scientists. Charts, statistics. Correct diet. Especially suited for medical and dental groups, and for higher educational institutions when accompanied by explanation from dentist or physician.		
15–11	**Drinking Health**	2	1.00
	Value of water to body. Comparison of unhygienic and hygienic methods of distribution.		

PHYSIOLOGY

(Also see page 125)

24–5	**Blood Vessels and their Functions, The**	1	1.00
	Vascular system illustrated by dissections of main blood vessels and by animated drawings. Blood cycle. Microscopic view of blood flow.		
24–6	**How You See—How's Your Eyesight?**	1	1.00
	Theory of sight. Principles common to eye and ordinary camera. Common ailments of human eye, causes and remedies.		
24–7B	**How We Hear**	½	.50
	Animated drawings and photography explain functions of the outer, middle and inner ear, and how sound waves are conveyed to the brain.		
15–10	**Canti Film**	3	10.00 in Calif. 15.00 out of state
	Experiments of famous cancer specialist, Dr. Canti, recorded by stop-motion pictures. Growth of normal and cancerous tissues, effects of treatments. A remarkable film. Highly technical and more suited for scientific groups. Pamphlet will be supplied, but presence of physician for explanation is recommended. Will be sent only upon assurance of projection by skilled operator. Cannot be shown where admission is charged.		

INDUSTRY AND BUSINESS

AUTOMOBILE

16–41	**Packard Motors**	6	3.00 a week
	Story of manufacture of motor car.		

BUILDING

No.	Subject	No. Reels	Service Charge
16–78	**The Span Supreme**	7	3.00 a week
	Operations in construction of new Hudson River suspension bridge which will be repeated on Golden Gate Bridge.		
16–86	**Home, Sweet Home**	1	.50
	Ceremonies during erection of model home (replica of Payne's "Home, Sweet Home") on White House grounds, President Harding attending.		

CLOTHING AND TEXTILES

16–3	**Romance of Rayon, The**	2	1.00
	Manufacture of artificial silk.		
16–17	**Land of Cotton, The**	1	.50
	Growing, warehousing, and weaving.		
16–58	**Cotton—From Seed to Cloth (colored)**	2	1.00
	Cotton producing regions of world; growing, ginning, transporting, manufacturing. Film lesson by Department of Geography, Harvard University.		
16–52	**Woolen Yarn, A**	1	.50
	From sheep to finished product. Progress in methods of carding, spinning, and weaving, from primitive Indian to modern times.		
16–62	**Story of Leather, The**	3	1.50
	Removing hides. Curing. Tanning. Map showing where materials for tanning are obtained. Different uses of leather.		
16–81	**Silk (colored)**	1	.50
	Culture of silk worms. Shipping to American factories. Manufacture of silk thread and cloth.		
11–17	**In Batik Land**	1	.50
	From Batavia to Bandoeng. "Sado" or Javanese taxi. Modern buildings and native shops. Markets. Art of making batik.		

ELECTRICAL

2–1	**Benefactor, The**	2	1.00
	Life of Edison—early struggles in perfecting incandescent lamp.		
16–5	**Conductor, The**	1	.50
	Making of lamp cord. Transforming copper, cotton, rubber, and silk into finished product.		

No.	Subject	No. Reels	Service Charge
16–55	**The Electric Needle**	1	.50
	Electric welding as used in manufacture of steel pipe.		
5–2	**King of the Rails**	1	.50
	History of land transportation in United States.		
16–21	**Mazda Lamp Manufacture**	2	1.00
	Making glass, blowing bulbs, frosting, making filaments, assembling, exhausting air.		
16–84	**Listening In**	1	.50
	Manufacture of radio equipment.		
6–5	**Magnetism and Electro-Magnets**	6	6.00 a week
6–3	**Induction Voltage Regulators**	2	1.00
9–2	**Big Deeds**	2	1.00
	Through General Electric Company factory at Schenectady, N. Y. Huge hammer pounding 12,000-pound billet into shape. Immense electric ovens. Research laboratories. 900,000-volt Coolidge cathode tube. X-ray. Broadcasting first television drama. Testing effects of lightning. Many other electrical experiments.		
6–1	**Busy Body, The**	1	.50
	Manufacture of electric motor.		

FISHING

See **Fish and Game Commission** films, pages 118–120

16–2	**Trapping Tuna**	1	.50
	Trapping. Harpooning. Landing catch. Packing and shipping.		
26–25	**Tuna Fishing**	1	.50
	Commercial fishing off San Pedro. Canning processes.		
16–7	**Fresh from the Deep**	1	.50
	Halibut fishing off British Columbia.		
16–32	**Harvesting the Deep**	1	.50
	Fishing on banks off Newfoundland. Unloading at Halifax.		
16–9	**Can of Salmon, A**	1	.50
	Salmon industry of British Columbia. Canning processes.		
16–10	**How Salmon Are Caught**	1	.50
	Drag seining. Trolling. Purse seine fishing. Salmon traps.		

No.	Subject	No. Reels	Service Charge
16–29	**Fishing in Northwestern Waters**	1	.50
	Fishing industry of Oregon and Washington. Using nets at sea. Fish wheel on the Klicatat River, Washington. Fish hatchery at Bonnieville, Oregon. Run of smelt. Angling for Chinook salmon.		
16–28	**Fishing in Florida Waters**	1	.50
	Sponge fishing. Shark fishing.		
26–21	**Sardine Fisheries of California**	1	1.00
	Fishing in Monterey Bay. Commercial canning processes.		
26–10	**Shad of California**	1	1.00
	Netting, packing for fresh shipment, canning processes.		

FOOD

11–2	**Banana Land**	1	.50
	In Tela. Clearing jungle. Growing bananas. Shipping.		
11–15	**Farmers of Formosa**	1	.50
	Sugar cane and rice growing.		
16–26	**Our Daily Bread**	1	.50
	Evolution of wheat and bread making industries from early times to date.		
16–31	**Behind the Cup**	2	Free
	Coffee industry in Guatemala.		
16–39	**Brazil's Gift**	1	.50
	Coffee growing, shipping, and roasting.		
16–33	**Romance of a Lemon, The**	1	.50
	Lemon growing and packing.		
16–40	**Sugar Trail, The**	1	.50
	Beet sugar industry.		
11–7	**Cuba, The Island of Sugar**	1	.50
	Story of sugar. Scenes in and about Havana.		
16–56	**Maple Sugar**	1	.50
	Early methods of tapping trees, gathering sap, and cooking compared with modern methods.		

GLASS

4–5	**Romance of Glass, The**	1	.50
	History of glass. Demonstration of cold pack canning.		

JEWELRY

No.	Subject	No. Reels	Service Charge
16–4	**Behind the Scenes in a Jewelry Store**	2	1.00
	Manufacturing jeweler. Silversmithing. Diamond cutting. Making platinum jewelry. Watch repairing.		
16–14	**Ivory. Celluloid. Diamond Cutting**	1	.50
	Cutting elephant tusks into ornaments. Making buttons, buckles from celluloid. Cutting and polishing diamonds.		
16–22	**Fine Arts in Metals**	3	1.50
	Manufacturing of bronze and silver statuary. Making table silver. Dining room appointments.		
16–38	**Time**	2	1.00
	Evolution of time-keeping instruments. Watch factory. Units of a watch—power, transmission, and governor. Obtaining time from stars.		

LUMBERING

(See page 84)

MINING AND METALLURGY

16–25	**Quarrying**	1	.50
	Quarrying Carrara marble in Italy, granite in Massachusetts, and asbestos near Thetford, Canada.		
16–75	**Anthracite**	1	.50
	Old and new methods of hard coal mining.		
16–76	**Bituminous**	1	.50
	Old and new methods of soft coal mining.		
16–13	**Gold and Coal**	1	.50
	Quartz mining and dredging for gold. Stamp mill. Mining surface coal at Wilkes-Barre, Pennsylvania.		
16–24	**Mountains of Copper**	1	.50
	Surface mining in Bingham Canyon, Utah. Blasting, shovelling, hauling by train to mill.		
16–49	**Liquid Gold of Texas**	1	.50
	Drilling, refining, and shipping of oil.		
16–77	**Pillars of Salt**	1	.50
	Mining and refining of salt.		
16–20	**Silversmith, The**	1	.50
	Mining. Smelting. Making "sterling" silver. Making silverware. Ancient and modern methods of silversmithing.		

No.	Subject	No. Reels	Service Charge
16–12	**Steel. Glass. Salt**	1	.50
	Smelting and rolling steel. Fusing and rolling plate glass. Making salt from sea water.		
16–59	**Story of Steel, The**	6	2.50 a week
	A complete story of the steel industry. Open pit mining. Various types of transportation. Open hearth and Bessemer processes of smelting. Manufacturing steel rails, axles, plates, forms, pipe, wire and wire products, etc.		
16–23	**Moulder, The**	1	.50
	Types of foundries. Sand storage bins. Removing iron from sand with magnets. Hoppers. Moulding.		
16–74	**Engine Lathe: Its Care and Operation**	7	3.50 a week
	Principal parts. Preparing lathe for operation. Machining a shaft on centers. Care of spindle. Diagram of twelve most practical tools. Thread cutting. Machining a pulley and a pair of lathe centers.		
1–18	**European Potash**	1	Free
	German potash mines. Processes of conversion into commercial fertilizer.		
16–89	**Story of Monel Metal**	2	1.00
	Composition of monel metal; its nature and manufacture. Largest non-ferrous electric furnace in the world. Uses of the metal.		
16–83	**Story of Portland Cement**	1	.50
	Nature and manufacturing processes. Electrically operated mills. Quarry blasting; loading; a gyrating rock crusher; pulverizing machines; automatic conveyors. Laboratory testing. Commercial uses.		

PAPER AND PRINTING

16–57	**Story of Writing Paper**	2	1.00
	Manufacture of stationery from linen and cotton rags.		
16–70	**World of Paper, The**	2	1.00
	Evolution of writing from Egyptian hieroglyphics to Roman alphabet. Egyptians making papyrus. Chinese making pulp from the mulberry tree. Gutenberg's process. Modern processes in making paper.		

POTTERY

16–30	**Potter's Wheel, The**	1	.50
	Making electrical porcelain.		

RUBBER

No.	Subject	No. Reels	Service Charge
16–87	**Conquering the Jungle**	1	.50
	Clearing jungles of East Indies. Cultivating rubber trees.		
16–82	**Romance of Rubber**	2	1.00
	Scenes on world's largest rubber plantation in Sumatra. Clearing jungles, planting and caring for trees, tapping for latex, refining processes. Native life on plantation.		

TRANSPORTATION

5–2	**King of the Rails**	1	.50
	History of land transportation in the United States.		
5–3	**Conquest of the Cascades**	1	.50
	Constructing tunnel in Cascade Mountains in Washington.		
5–6	**Queen of the Waves**	1	.50
	History of American navigation.		
16–15	**Ocean Cargo**	3	Free
	The story of shipping by water, from the receipt of the freight at the dock to the unloading at point of destination.		

MISCELLANEOUS

23–72	**Danish Industries**	3	1.50
	(See page 91, reels V, VI, and VII of film on "Denmark.")		
16–64	**Story of Bakelite, The**	2	1.00
	Combination of phenol and formaldehyde to produce bakelite. Chemical processes of obtaining phenol from coal tar, and formaldehyde from wood alcohol. Manufacturing bakelite products.		
16–60	**Making Musical Instruments**	2	1.00
	Manufacture of horn instruments.		
16–43	**Story of Refrigeration, The**	2	1.00
	History of refrigeration from early Egyptians to present. Manufacturing refrigerators.		
16–44	**Refrigerator Facts**	1	.50
	Constructing ice-box. Principles of refrigeration. Types of ice boxes.		

LITERATURE

(See also Entertainment)

No.	Subject	No. Reels	Service Charge
2–3	**William Cullen Bryant**	1	.50
	Old Mansion. Library at Cummington. Williams College. Estate at Roslyn, Long Island. Selections from "Thanatopsis," "The Crowded Street," and "The Skies," illustrated.		
2–4	**James Fenimore Cooper**	1	.50
	Cooperstown, N. Y. Oswego Lake. Pathfinder Lodge. Natty Bumpos's grave.		
2–5	**Ralph Waldo Emerson**	1	.50
	Harvard University. Scenes visited on his European tour. Illustrated extracts from some of his works.		
2–6	**Nathaniel Hawthorne**	1	.50
	Birthplace at Salem, Mass. Scenes of his life. Scenes from "The House of Seven Gables."		
2–7	**Oliver Wendell Holmes**	1	.50
	Cambridge and Harvard University. Illustrated extracts from "The Height of the Ridiculous." The Hudson River.		
2–8	**Washington Irving**	1	.50
	Birthplace in New York City. Sunnyside at Irvington-on-Hudson. Sleepy Hollow Cemetery. Scenes from "Sketch Book."		
2–9	**Sir Walter Scott**	1	.50
	Birthplace. University of Edinburgh. Abbotsford. The Tweed. Burial place in Dryburgh Abbey. Lochs Katerne and Lomond. Scenes from "Lady of the Lake."		
2–10	**James Russell Lowell**	1	.50
	Cambridge, Mass. Extracts from "The Biglow Papers." Picturization of "The First Snowfall."		
2–11	**Edgar Allan Poe**	1	.50
	University of Virginia. "Annabel Lee" illustrated.		
2–13	**Walt Whitman**	1	.50
	West Hills, Long Island. Home in Camden, N. J. Grave. Selections from "Leaves of Grass," illustrated.		
2–14	**John Greenleaf Whittier**	1	.50
	Haverill, Mass. Amesbury, Mass. Grave at Union Cemetery, Amesbury. Boyhood depicted in "The Barefoot Boy." Picturization of "Maud Muller."		

No.	Subject	No. Reels	Service Charge
17–16	**The Brook**	1	.50
	Tennyson's poem illustrated.		
14–10	**Ride of Paul Revere, The**	1	.50
	Picturization with captions from Longfellow's poem.		

NATURE STUDY

2–22	**A Day with John Burroughs**	1	.50
	At home with famous naturalist.		
19–62	**Nature's Nurseries**	1	.50
	Fish eggs. Alligator eggs. Spider eggs and babies. Hummingbird nest. Feeding young. Deer and young. Sheep and young. Bear and young.		

PLANTS

See **Fish and Game Commission** films, pages 118–120

2–2	**Luther Burbank**	½	.50
	At home with Luther Burbank.		
19–50	**Trees of California Deserts**	2	1.00
	Trees of Mohave Desert, Nevada, and Utah.		
19–51	**Some Plants of the California Deserts**	1	.50
	Plant life of California desert during arid season.		

ANIMALS

10–135	**Trail Mates**	4	4.00
	Adventures of Jack Robertson and dog, Wrongstart, in Alaska. Wild life and scenery.		

INSECTS

See **Fish and Game Commission** films, pages 118–120

15–32	**Termites**	1	1.00
	Partial life history illustrated by I. Subterranean termites, II. Rottenwood termites, and III. Sound-wood termites. Protective measures against termites.		
19–74	**Some Common Garden Pests**	1	.50
	Fly: effect of spray of soap and nicotine. Green, lacewing, hover flies. Daddy-long-legs. Wasp, dragon-fly. Snails.		

No.	Subject	No. Reels	Service Charge
19–75	**Insects That Sing. Centipede**	1	.50
	How male field crickets sing. How Katydid produces its song. Giant centipede.		
19–89	**Nature's Handiwork**	1	.50
	Life cycle of butterflies.		
19–16	**Insect Artisans**	1	.50
	Life cycle of Artanthus silk worm and Red Admiral, a British butterfly.		
19–23	**Wasps**	1	.50
	Life cycle.		

FISH AND SEA LIFE

See **Fish and Game Commission** films, pages 118–120

19–78	**Sea Life**	1	.50
	Rare fish in aquarium. Manatees or sea cows. Carp. Seals.		
19–5	**Stickleback. Ant Lion (natural color)**	1	.50
	Fish that builds nest for eggs. Ant lion.		
19–6	**Cliff Dwellers of the Sea**	1	.50
	Birds living on island off coast of United States and Mexico. Gulls, cormorants, and pelicans. Nests and young. Sea Lions.		
19–15	**California Fish and Game**	1	.50
	Mount Shasta Fish hatchery. Landlocked salmon. Trout. King salmon. Crappie. Deer in Yosemite. Black bears. Ducks and geese. Sierra grouse.		
19–45	**Pachyderms of the Sea**	1	.50
	Guadalupe Islands. Pelicans and gulls. Jaeger bird and young. Sea elephants. Young and old. Seals. Capturing specimens.		
19–58	**Fathoms Deep**	1	.50
	Conger after prey. Sea Anemones. Star fish. John Dory. Shrimps and prawns. Gornard. Spider crabs.		

REPTILES

19–94	**Turtles and Tortoises of All Lands**	1	.50
	By Raymond L. Detmar. American box tortoises, African tortoises, giant Galapagos tortoises, terrapins.		

BIRDS

See **Fish and Game Commission** films, pages 118–120

No.	Subject	No. Reels	Service Charge
19–3	**Miscellaneous Birds**	1	.50
	Albatross. Pelican. Wild duck refuge, Lake Merritt. Great horned owl. Pet owl. Bird hospital. Raven.		
19–9	**Sparrow Hawk, The**	1	.50
	Nest and eggs. Young at different ages. Mother and father birds. Feeding young.		
19–19	**Bird Life of the Magellan Straits**	1	.50
	Seagulls, cormorants and penguins.		
19–33	**Forest's Living Flame, The. Caring for Birds in Winter**	1	.50
	Scarlet tanager. How Scouts care for wild birds in winter.		
19–34	**In Birdland**	1	.50
	Black-billed cuckoo. Red-eyed vireo. Ruffed grouse or partridge. Building bird houses. By William L. Finley.		
19–35	**Hooters and Honkers**	1	.50
	American grouse. Wild geese. Mallards. Drakes. Pelicans. By William L. Finley.		
19–39	**Birds of Marsh and Crag**	1	.50
	Seals and young. Fulmer, a petrel. Cormorant. Action of web feet in water. Diving and catching fish. Penguin. Pelican. By William L. Finley.		
19–55	**White Owl, The**	1	.50
	Habits and life. Value to agriculture.		
19–59	**Nature's Gliders**	1	.50
	Slow motion analysis of birds in flight.		
19–61	**Cuckoo's Secret, The**	1	.50
	Female cuckoo laying eggs in nest of titlark. Hatches and soon ejects from nest, eggs and young of foster parents. Grows until titlark must stand on young cuckoo's head to feed it.		
19–76	**Cormorants. Tortoises**	1	.50
	Homes of cormorants. Trained cormorants used by fishermen. Water and land tortoises. Methods of swimming. Protective armor.		
19–86	**Bird Pets**	1	.50
	Hospital for sick birds. Parrot. Great horned owl. Barn owl. Baby heron.		

MAMMALS

See **Fish and Game Commission** films, pages 118–120

No.	Subject	No. Reels	Service Charge
19–81	**Nature's Armor**	1	.50
	Protective armor of rhinocerous, hippopotamus, crocodile, armadillo, porcupine, hedgehog, lion, bison, and others.		
19–83	**Br'er Coon and His Friends**	1	.50
	Raccoon. Possum hunt in Georgia. Otter. Porcupine. Marmot. Mountain goat. Armadillo.		
19–84	**Just Dogs**	1	.50
	Sealyham terrier. Malamutes. Greyhound races.		
19–91	**Some Rare Specimens**	1	.50
	Flying phalanger. Panda. Australian monitor (largest lizard). Otter. Fable of Tortoise and Hare.		
19–14	**Deer**	1	.50
	Species of deer. European red deer and fawn. Reindeer. Moose.		
19–93	**Animal Antics**	1	.50
	Seal, elk, buffalo, wolf, raccoon, bear, monkey, otter, hippopotamus, elephant, swan, zebra.		
19–7	**Getting Canada's Goat**	1	.50
	Wild goats and sheep in native environment. Banff. Mount Temple and Valley of Ten Peaks.		
19–20	**Br'er Fox and Others**	1	.50
	Fox hunt. Fox farming. Prairie dog. Strange animals from South America.		
19–21	**Horses**	1	.50
	Mare and foal. Mare and goat who are constant companions. Rest farm for retired horses.		
19–43	**Sea Lions**	1	.50
	Colony off coast of Callao, Peru.		
18–16	**Maverick, The**	1	.50
	Reminiscences of old saddle horse. Early life as wild colt in Wyoming.		
19–63	**Studies in Animal Motion**	1	.50
	Slow motion analysis of movements of wild animals.		
19–71	**Bear Facts**	1	.50
	Species of bears. Titled with rhymes.		
19–72	**Hungry Marmot, The**	1	.50
	Marmot. Flirtation in zooland. Animal comedy with actual pictures and cartoons.		

Fish and Game Commission Films

The following films have been made by the Fish and Game Commission. They were photographed for showing to sportsmen's clubs and although not organized for use in school class-rooms, they have value for the latter purpose. Of the group, films 26–8, 26–9, 26–10, 26–16, 26–18—Reel 1, 26–21, 26–25, and 26–28—are the best for class-room teaching.

No.	Subject	No. Reels	Service Charge
26–1	**Little Brown Crane**	1	1.00
	Close-ups. On sentry duty. Flying and alighting. Traveling flocks. Feeding. Sand-hill crane.		
26–2	**Game Mammals of California (Elk)**	1	1.00
	Herds in Kern County and Yosemite Valley. On winter range.		
26–3	**Stealthy Stalkers**	1	1.00
	No subtitles. Rabbit, squirrel, skunk, beaver, porcupine, and ring-tailed cat. Coyote, bob cat, mountain lion, and bear.		
26–4	**Sea Birds of Coast Islands**	1	1.00
	Farralone Island cormorants, sea gulls, murres, puffins, seals. California brown pelican.		
26–5	**Duck Diseases**	1	1.00
26–6	**Striped Bass**	1	1.00
	Fishing for striped bass in sloughs and on Napa River.		
26–7	**Barge Fishing in Southern California Waters—Surf Fishing in Northern California**	1	1.00
	Catching yellow tail, barracuda, off barge. Fishing in surf with nets. Smoking and drying fish.		
26–8	**Big Game Mammals**	1	1.00
	Mule and black-tailed deer, valley elk, pronghorn antelope, desert mountain sheep.		
26–9	**Upland Game Birds**	1	1.00
	Bonded-tail pigeon, mourning dove, sage-hen and Sierra grouse, valley quail.		
26–10	**Shad of California**	1	1.00
	Netting, packing for fresh shipment, canning processes.		
26–11	**California Waterfowl**	1	1.00
	Mallard and sprigtail ducks, Canada good honker, whistling swan.		
26–12	**Naturelogues**	1	1.00
	Ducks, California woodpecker, black-tailed deer, marbled godwit, burrowing owl, desert tortoise, Canada goose.		

No.	Subject	No. Reels	Service Charge
26–13	**Game Bird Propagation in California**	1	1.00
	Yountville State Game Farm. Hatching and raising ring-neck and silver pheasants.		
26–14	**Quail ("Here and There," No. 1)**	1	1.00
	Valley and mountain quail. Quail hunting. Eggs and young.		
26–15	**The Prong Horned Antelope**	1	1.00
	Herds. Mt. Dome refuge. Young and adults.		
26–16	**Salmon—King of Fisheries**	1	1.00
	Artificial propagation in Klamath River hatcheries.		
26–17	**Ducks and Geese ("Here and There," No. 2)**	1	1.00
	Black brant off shore. Ducks and geese in flight and landing. Little brown crane.		
26–18	**Los Banos Refuge (Bird Haven)**	1	1.00
	Canals and waterways, islands. Swallows, orioles, doves, king-birds, shrike, red-tailed hawks, horned owls, black-bird and gallinules on nest.		
26–19	**Black Bass and Crappie Fishing in San Diego County**	1	1.00
	Fishing on reservoirs. Planting trout. Male crappie guarding nest. Steel head fishing at Point Reyes.		
26–20	**Ducks of California**	1	1.00
	Ducks swimming and flying. Duck hunting. Mallard, woodduck, cinnamon teal, pin-tail, widgeon, canvas-back, ruddy, and coot.		
26–21	**Sardine Fishing in California**	1	1.00
	Fishing in Monterey Bay. Commercial canning processes.		
26–22	**Clams and Mussels of California**	1	1.00
	Digging for Pismo clams. Taking annual census. Clams digging in sand. Arresting violators.		
26–23	**Waterfowl Refuges of California**	1	1.00
	Lake Merritt, Richardson Bay, and Los Banos refuges. Ducks flying and swimming.		
26–24	**Desert Mountain Sheep**		
	Reel I—At desert waterholes and on mountain peaks	1	1.00
	Reel II—Same material but different scenes	1	1.00
26–25	**Commercial Fisheries of California (Tuna)**	1	1.00
	Commercial fishing off San Pedro. Canning processes.		

No.	Subject	No. Reels	Service Charge
26–26	**California Song Birds**	1	1.00
	Chickadee, wren-tit, russet-backed thrush, Anna humming-bird, cliff swallow, violet-green swallow on nests.		
26–27	**Big Horn Mountain Sheep—Bears ("Here and There," No. 3)**	1	1.00
	At desert water-holes and on mountain heights. Fishing in various places.		
26–28	**From Hatchery to Creel**	3	3.00
	Artificial trout spawning and hatching at Mt. Shasta Hatchery. Transporting and planting in Yosemite Valley.		
26–29	**Conservation Accomplishments**	3	3.00
	Activities of the Division of Fish and Game.		
26–30	**Nesting Time in California**	1	1.00
	Canada geese, sand hill crane, long-billed curlew, killdeer plover, American avocet, mudhen.		
26–31	**Marsh Birds of California**	1	1.00
	Black-crowned night heron, anthony green heron, snowy heron, snowy egret, American egret, American bittern, white-faced glossy ibis, mudhen, rail.		
26–32	**Birds of Prey—Common Hawks and Owls**	1	1.00
	Osprey, red-tailed hawk, prairie falson, horned owl, buzzard, golden eagle.		
26–33	**Glimpses of California Game Birds**	1	1.00
	Pintail duck, wood duck, Canada goose, whistling swan, waterfowl, long-billed curlew, American avocet, black-necked stilts, white-faced glossy ibis, Sierra grouse, sage-hen, band-tailed pigeon.		
26–34	**Big Horn Mountain Dwellers**	1	1.00
	On rocky crags, and at waterholes.		

PHYSICAL EDUCATION

(See pages 106, 125)

7–5	**Football Fundamentals**	2	2.00
	By Knute Rockne. Handling and carrying ball, blocking and interfering, tackling, line stance and tactics, formations, fundamental team plays. Diagrams. Stop-motion and slow-motion pictures. Excellent.		

No.	Subject	No. Reels	Service Charge
7–5B	**Football Fundamentals** (Reel 1 of No. 7–5.) Handling and carrying ball, blocking and interfering, tackling, line stance and tactics, formations.	1	1.00
2–24	**Tumbling, Elementary** Animal walks; toe, foot, and stick jumps; squats and dips, simple dives and rolls; cartwheel, round-off, and hand stand.	1	.50
2–23	**Tumbling, Advanced** Advanced animal walks; shoulder stands, foot flips, neck flips, ankle throw, knee spring.	1	.50
2–25	**Tumbling, Combination** Rocker roll and forward upstart; somersaults; hand stands, head, neck and hand springs; back hand spring and back somersault, gainers and twisters.	1	.50
7–8	**Swimming** Getting accustomed to water, correct breathing, body position, back floating, sculling stroke, treading water, back stroke, side stroke, trudgeon, crawl, racing back stroke.	1	1.00
22–2	**Life Saving and Resuscitation** Correct method of approaching drowning person, breaking grip, carrying to shore, and Shafer method of resuscitation.	½	.50

RECREATION

18–9	**Gentlemen Cadets** Royal Military Academy at Port Frederick, Ontario, Canada.	1	.50
18–5	**Seven League Booters** Winter sports at St. Moritz, Switzerland.	1	.50
18–50	**White Weather** Winter sports and carnival time in Quebec.	1	.50
23–33	**Winter Sports in Yosemite** Skiing, tobogganing, skating.	1	.50
23–27	**Winter Sports in Canada** Winter sports in Quebec and Montreal.	1	.50
18–1	**In Quest of the Bronze Back** Adventures of two anglers in wilds of Canada.	1	.50

No.	Subject	No. Reels	Service Charge
7–46	**America's Heritage**	2	1.00
	Motion picture letter of a Boy Scout to his mother, telling of his adventures on a camping and motor trip.		
18–31	**Japanese Festivals**	1	.50
	Scenes in Yokohama's playgrounds. Acrobats with poles and ladders. Rice festival. Playing shuttlecock.		
18–45	**Some European Pastimes**	1	.50
	Motorcycle racing in England. Playing pelota in Spain. Winter festival at Fichtelgebirge, Germany.		
7–36	**Scouting in the Swiss Alps**	1	.50
	Boy Scouts rescuing lost herdsman. First aid. Ascent of Wiede Frau. View of Bernese Alps. Perilous descent.		
23–39	**Redwood Empire Travel Thrills**	2	Free
	Scenes of interest in Redwood Empire; outdoor recreation haunts: swimming, fishing, boating in ocean, and in mountain streams; comprises San Francisco, Marin, Sonoma, Napa, Lake, Mendocino, Humboldt, Del Norte, and Josephine (Oregon) counties.		

RELIGIOUS MOTION PICTURES

21–3	**Hidden Gardens and Stately Cloisters**	1	.50
	Churches and Cathedrals in Lima, Peru.		
21–5	**Valley of Dry Bones**	1	.50
	Rock-hewn chambers, the tombs of the kings of Israel. Gordon's calvary. Jeremiah's Grotto. Tomb of Joseph of Arimathea.		
21–6	**Gibeah**	1	.50
	Mount Ephriam. Modern city of Ramallah. Pasture lands. Beeroth. Nob Hill near Jerusalem. Shepherds and flocks.		
21–8	**At the Damascus Gate of Old Jerusalem**	1	.50
	Ramparts of Jerusalem. North Portal. Damascus Gate. Water carrier. Men of Jerusalem. Bedouins. Tower of David. Mosque of Omar. Mount of Olives. Garden of Gethsemane.		
21–9	**In Modern Jerusalem**	1	.50
	Daughters of Zion. The orthodox coiffure. The American colony.		
21–10	**Solomon's Temple**	1	.50
	Mosque of Omar. Models of Temple of Solomon illustrating architectural history. The Holy of Holies.		

No.	Subject	No. Reels	Service Charge
21–11	**At the Wailing Wall**	1	.50
	Valley of Jehoshaphat. Walls of Jerusalem. Moslem Mosque of Omar. The wailing wall.		
13–73	**Liberated Jerusalem**	1	.50
	Map. City of Ludd. Orthodox family. Tower of David. Camions of Canaan. Heroes' last resting place. Capitol building. Jaffa Gates.		
21–14	**Sea of Galilee, The**	1	.50
	Bethsaida. Town of Magdala. Sea and coast. Surrounding hills. Caravan train. Capernaum. Plain of Geneseret. Mountain of Beatitudes.		
21–16	**Nazareth**	1	.50
	In Galilean Hills. Place of Angel's visit. Native carpenters. Virgin's Fountain. Quaint village streets. A camel corral. Synagogue where Jesus taught.		
21–17	**Bethlehem**	1	.50
	Street scenes. Market place. Woman spinning and weaving. Curious veil and headdress. Church of the Nativity.		
21–18	**Via Dolorosa**	1	.50
	Court of the Antonia. The "Ecce Homo" Arch. The different stations. House of St. Veronica. Church of the Holy Sepulchre. Pilgrims. The tomb of Jesus.		
21–20	**Abraham**	1	.50
	Ruins of Chaldea. Scenes along Euphrates. Damascus. Valley of the Schechem. Mount Ebal. Mount Gerizim. Pyramids of Egypt. Kidian Valley. Beersheba. Rock of Moriah. Abraham's well at Beersheba. Abraham's burial place.		
21–21	**Down to Jericho**	1	.50
	Map of Palestine. Road to Jericho. Inn of Good Samaritan. River Jordan. Jericho. Walls and foundations. Valley of Achar. Road to Dead Sea. Mount Nebo.		
21–22	**Land of Moses, The**	1	.50
	Nile at Tanis where Moses was born. Ruins of Court of Pharaoh. The Sphinx. The Wilderness. Red Sea. Mount Sinai. Ethan. Valley of Eschol.		
21–23	**Beyond the Jordan**	1	.50
	Map. The River Jordan. Camel train. Donkeys. Gilead. City of Essalt. Types of natives.		

No.	Subject	No. Reels	Service Charge
21–24	**Canaan of Galilee**	1	.50
	Scenes in Cana. The little church. The well. A marriage celebration.		
21–25	**Samaria**	1	.50
	Map. Plains of Megiddo and Esdraelon. City of Jenin.		
21–26	**Shechem**	1	.50
	Map. Mount Ebal. Highway. Mount Girizim. Shechem. Fertile plains. Tzrah. Types of natives. Caravan. The high priest. Samaritans. City gates.		
21–27	**Land of Joseph, The**	1	.50
	Hebron. Herds of sheep. Rachel's tomb. Dotham. Streets in Beersheba. Land of Goshen. City of Orr. Valley of Shechem. Shrine marking Joseph's grave.		
21–28	**Kingdom of David, The**	1	.50
	Bethlehem. Where Israelites and Philistines camped. Ramah. Cave at En-gedi. Wilderness of Ziph. Hachillah. City of Zilag. Gilboa. Hebron. Ancient walls and tower of Ura Salim.		
21–29	**Mount Carmel**	1	.50
	Mount Carmel. Plain of Esdraelon River. Kistron. Ruins of king's palace at Jezreel. Cherith. Story of Elijah.		
21–30	**Gethsemane**	1	.50
	Ruins of house of Simon. Tomb of Lazarus. House of Mary and Martha. Threshing grain. Bethphage. Mount of Olives. The Holy City. Church of the Ascension. Olive groves.		
21–32	**Shiloh**	1	.50
	Map. Shiloh. Village of Thormosia. Church over Jacob's well. Tomb of Jacob's son. Great Damascus Highway. Gerizam. Sychar and Mohammedans.		
21–33	**On the Road to Bethlehem**	1	.50
	Tower of David, Jerusalem. The road to Bethlehem. Well of the Magi. Tomb of Rachel. Bilon. Boaz. Shepherds. How the sling is used. Grinding wheat. Village oven. Approach to Bethlehem.		
21–34	**Hebron, The Ancient**	1	.50
	Map. Pools of Solomon. Plain of Mamre. Abraham's oak. Valley of Eshcol. Ancient caravan road. Hebron. Gate and walls. Cave of Macphelan. The mosque. Pool of David. Making water skins.		

SCIENCE

ASTRONOMY

No.	Subject	No. Reels	Service Charge
12–23	**Communing with the Heavens**	1	.50
	Dominion National Observatory at Ottawa. Sun dial. Coelostat. Anemometer and seismograph. Deriving time from stars. Spectroscope. Photographing planets.		

BIOLOGY

(See also page 106)

19–47	**Protoplasm—The Beginning of Life**	1	1.00
	The earth before life appeared—earliest forms of life traced through the study of geology. Simplest forms of life. Characteristics of living things—movement, irritability, assimilation, and reproduction—shown in amoeba, stentor and other simple forms. Protoplasm shown in characteristic motion in one-celled and many celled hosts. Growth and reproduction suggested by views of familiar plant and animal life.		

CHEMISTRY

(See also pages 110–111)

9–1	**Beyond the Microscope**	1	.50
	Molecular construction of water. Physical changes produced by vaporization and solidification.		
9–15	**Liquid Air**	1	.50
	Stages of compression. Effect of this substance upon different objects. New method of refrigeration with air.		
16–64	**Story of Bakelite, The**	2	1.00
	How combination of phenol and formaldehyde produces bakelite. Chemical processes of obtaining phenol from coal tar, and formaldehyde from wood alcohol. Manufacturing different bakelite products.		

GEOLOGY

12–7	**Rocky Mountains**	1	.50
	General review of mountain system.		
10–154	**Kilauea and Haleakula**	1	.50
	Craters. Other geological phenomena of Hawaiian Islands.		
12–8	**America, the Land of Many Waters**	1	.50
	Distribution of rainfall. Great Lakes. River boats on Mississippi. Erie Canal. Story of river. Water power. Forest preservation.		

No.	Subject	No. Reels	Service Charge
18–27	**Menace of the Mississippi**	2	1.00
	Ravages during recent floods. Constructing new levees, canals, and creating flood districts. President Hoover's plan of flood control.		
23–25	**Glimpses of the Yosemite**	1	.50
	Famous falls and other features. Big Oak Flat Road. Tuolumne Big Trees. Tenaya Lake. Morro Lake. Wawona Big Tree.		

PHYSICS

9–5	**Story of Compressed Air, The**	2	1.00
	How produced. Types of engines for making. Uses in industry.		
9–15	**Liquid Air**	1	.50
	Stages of compression. Effect upon different objects. Refrigeration with air.		
9–3	**Light of a Race**	1	.50
	Development of artificial illumination from primitive fire-making to incandescent lamp.		
9–4	**Revelations by X-ray**	1	.50
	Manufacture of Coolidge tube. Electrical action in producing x-rays. Power of x-ray to reveal inner structure of opaque objects. Action of bones of hand, wrist, elbow, knee, ankle, and foot. How x-rays have assisted modern science.		
6–5	**Magnetism and Electro-Magnets**	6	6.00 a week
6–3	**Induction Voltage Regulators**	2	1.00
9–2	**Big Deeds**	2	1.00
	General Electric Company factory at Schenectady, N. Y. Huge hammer pounding a 12,000-pound billet into shape. Immense electric ovens. Research laboratories. 900,000-volt Coolidge cathode tube. X-ray. Broadcasting first television drama. Testing effects of lightning. Many other electrical experiments.		
9–1	**Beyond the Microscope**	1	.50
	Molecular construction of water. Physical changes produced by vaporization and solidification.		
16–78	**The Span Supreme**	7	3.00 per week
	Operations in construction of new Hudson River suspension bridge which will be repeated on Golden Gate Bridge.		

No.	Subject	No. Reels	Service Charge
9–7	**Wizardry of Wireless**	2	1.00
	Development of signal communication, showing beacon fire, heliograph, semaphore, Indian smoke blanket, wig-wagging, electric telegraph and telephone, and radio. Animated drawings explain vacuum tube and other apparatus employed in radio transmission and reception.		
9–8	**Elements of the Automobile**	6	5.00 or $1.00 a reel
	Reel 1—Running Gear and Differential.		
	Reel 2—Running Gear and Differential Gear (Concluded).		
	Reel 5—Carburetor.		
	Reel 6—Fuel System and Ignition.		
	Reel 8—Ignition (Concluded).		
	Reel 10—Transmission.		
5–4	**Power Transformers**	2	1.00
	First and latest transformers. Numerous tests and steps in construction of latter.		
5–5	**Automatic Substation for Mining**	1	.50
	(Technical) Animated diagrams and actual photography illustrate operation of typical 300-kw., 275-volt, automatically controlled, motor-generator set for coal-mining service. Operation of reclosing feeder and various control devices explained.		
5–10	**Automatic Substation. General Applications**	1	.50
	(Technical) Actual scenes and animated diagrams illustrate operation of automatically controlled, double-unit, converter station for three-wire service. General applications.		
5–11	**Automatic Substation for Railway**	1	.50
	(Technical) Actual scenes and animated diagrams illustrate operation of typical 1000-kw., 600-volt, railway, automatic, synchronous-converter station in operation, with protective features.		

35MM

SOUND ON FILM

No.	Subject	No. Reels	Service Charge
5–8	**Oil Films on Water**	5	2.50
	Dr. Irving Langmuir's and other famous experiments with oil films to measure molecules.		
22–1	**Mountains of Copper**	1	.50
	Surface mining in Bingham Canyon, Utah. Blasting, shovelling, hauling by train to mill.		
22–4	**Thomas A. Edison**	1	.50
	Development of incandescent lamp. Story of Edison's later life.		
5–7	**The Ventriloquist**	1	.50
	Comic reel. The Pastor calls upon his fiancee and converses with "Charlie," her little brother. Cannot be shown where admission is charged.		
22–5	**Conquest of Cascades**	1	.50
	Tunneling operations through Cascade Mountains in Washington.		

GLASS SLIDE SERVICE

The glass slide is still one of the most effective of Visual Aids, although in recent years many attempts have been made to produce substitutes.

These slides (standard size 3½ × 4 inches) are arranged in sets of 15 to 28. Text for each slide is sent with the set.

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A school system in a town of 2000 population or less is considered one unit. Schools in towns of a population greater than 2000 are each considered a separate unit.

Shipment will be made by collect express or prepaid parcel post. Shipment must be returned with transportation prepaid.

Orders must specify exact showing date and should give first, second and third choice of titles. Reservations will be made for one day only. However, five days will be allowed without additional charge if requested at the time the reservation is made.

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TEXT CARDS

Text cards may be booked in advance for a service charge of 25 cents a set, for one to five days' use.

GLASS SLIDES

ENGINEERING

No.	Subject	No. of Slides	No. Colored
30–40	**San Francisco-Oakland Bay Bridge**	23	—
	San Francisco approaches and anchorage; West Bay suspension bridge; suspension towers; center anchorage; portals and cross section of tunnel; cross section of bridge; East Bay section; pier on Yerba Buena Island; cantilever span; comparative bridge dimensions; old type pneumatic caisson; model of compressed air-flotation caisson; excavating for piers; caisson with domes.		
30–41	**San Francisco-Oakland Bay Bridge**	10	—
	Tower piers; erection of towers; cable saddle on top of tower; west channel towers; erection of East Bay trusses; East Bay fill; aerial view, January, 1935. NOTE: Slides will be added as construction progresses.		
30–39	**The Construction of Boulder Dam**	25	—
	Location of project; Black Canyon, 1931; Boulder City, Nevada; construction and passenger cableways; gravel screening and washing plant; high level cement mixing plant; plan of Boulder Dam and appurtenant works; view upstream, February, 1932; drilling jumbo at tunnel face; completed diversion tunnel; completed upstream cofferdam; diversion tunnel outlets at flood flow; scaling above power house; débris in canyon following excavations; pouring first bucket of concrete; dumping sixteen tons of concrete; dam columns and inspection galleries; completed Nevada spillway; transporting and installing 30-foot pipe; interior of steel pipe fabrication plant; construction views, November, 1934; model of completed structure.		
30–97	**Bonneville Project**	16	16
	Map; model; general view from Wauna Point; Guidewall and Lock Chamber; Lock Chamber and Culvert Trench; Cross-section of Power House; Power House substructure, upstream side; Power House substructure, downstream side; Bonneville Dam area from Hamilton Mountain, Washington, looking southeast; timber crib on ways; Cofferdam sheet piling and pumping operations; excavation area inside Cofferdam, downstream side; 25 cubic-yard capacity Le Tourneau buggy; plan and cross-section of spillway dam.		

No.	Subject	No. of Slides	No. Colored
30–99	**Colorado River Aqueduct**	35	—

Watershed of the Los Angeles metropolitan area; the falling ground water level; southern California water supply systems and Boulder Dam power lines; the Colorado River drainage area; alternative preliminary routes; the Parker route; model of Parker Dam; plan and section of Parker Dam; architectural study of intake; profile of intake pumping installation; intake and Whipple Mountain section of the aqueduct; aerial view of copper basin reservoir site; terminal reservoir at Cajalco; cross section of Cajalco Dam; map of construction roads; construction of district roads; construction of water system, Berdoo headquarters camp; concreting open-lined canal; setting steel forms for cut and cover conduit; double-barrel siphon; placing siphon invert forms; pouring anchor section—Little Morongo siphon; siphon end of transition; conduit end of transition; east portal of Bernasconi tunnel; aerial view showing diagrammatic location of San Jacinto tunnel; drilling full-face tunnel from drill carriage; mucking machine and locomotive in Bernasconi tunnel; car hoist or cherry picker; hauling muck over California switch; measuring tunnel diameter with pantograph; tunnel walls lined with concrete; progress profile of aqueduct tunnels.

GEOGRAPHY

SCENIC AMERICA

30–12	**Grand Canyon of the Colorado**	23	23

The Canyon from El Tovar Hotel; near Hermit's Rest, South Rim; rock layers of the Canyon; sunset rock; trees of the rim; upper strata of the Canyon; the Inner Gorge; mountain peaks within a canyon; gorges near Cedar Mountain; the Colorado River; on the Transcanyon Kaibab Trail; down Clear Creek Canyon from the North Rim; eastward from Point Sublime Trail; North Rim forest; home of Havasupai Indians; Mooney Falls; Havasu Falls and Canyon; changes in the Canyon; Colorado River at twilight.

30–13	**Yosemite Valley**	26	25

In the Merced River Canyon; view from Artist's Point; Bridal Veil Falls; El Capitan; the Three Brothers; Upper Yosemite Falls; the Royal Arches; Cathedral Spires and Rocks; Half Dome; Happy Isles; Mirror Lake; Agassiz Column and the Balanced Rock; Sentinel Rock; Glacier Point; Vernal Falls; Nevada Falls; Cascade Falls; Chil-no-Alna Cascades; sunset behind El Capitan.

No.	Subject	No. of Slides	No. Colored
30–11	**Yellowstone National Park**	28	28

Gardiner Canyon; Electric Peak; administrative headquarters; Mound and Angel terraces; Golden Gate Canyon and Viaduct; Norris Geyser Basin; Mammoth Paint Pots; Morning Glory Spring; the Punch Bowl; Handkerchief Pool; Giant Geyser; Old Faithful; Kepler Cascade; Yellowstone Lake at West Thumb; Upper Falls; Grand Canyon of the Yellowstone; Tower Falls and Towers; elk in Yellowstone in winter; a buck deer; Yellowstone bear pits; black bears; herd of buffalo; a beaver dam and house.

U. S. POSSESSIONS

30–27	**Alaska—A**	25	25

Cultivable areas and schools; comparison of geography with Scandinavian countries; Auk Lake and Mendenhall Glacier; Wright Glacier and terminal moraine; ice breaking away from Child's Glacier; Yukon River in summer and winter. Eskimos; igloos and native dress; with dog team and sled; kayaks; native embroidery; totem poles; a caribou; fur seals.

30–28	**Alaska—B**	26	26

Nome, Alaska; Yukon River boats at Dawson; Albert Bay fishing village; growing cabbages and carrots; a field of grain; a barnyard near Juneau; dairy farm; wild blackberry and lichens; unloading salmon from a fishing boat; an old-time whaling vessel; dog teams on a narrow-gauge railway; Chilkoot Pass in '98; a miner panning gold; hydraulic mining; gathering gold from sluice box; Treadwell gold mine; Bourbon Creek gold dredge; Bonanza Basin of the Yukon; gold bricks and nuggets.

30–29	**Philippine Islands**	28	1

Igorote village in Benguet, Island of Luzon; native kitchen; hulling rice for breakfast; bamboo bridge, typical native village; launching a native dugout canoe; houseboats on the Pasig River, Manila; thatch-roofed cart; riding and packing on cattle; carabao on a village street; native girls gathering sweet potatoes; native method of stripping Manila hemp; drying the hemp fiber; hauling hemp to the press; winding hemp on spindles; plowing scene; harvesting rice under palm leaf sun shades; rice sheaves; husking cocoanuts; a raft of cocoanuts; sugar mill scene; stretching hides at a tannery; a tropical shower; Mayon; old Cavite church; a negrito shooting wild boar and fishing for frogs.

MEXICO

No.	Subject	No. of Slides	No. Colored
30–1	**Mexico—A**	19	5
	Saltillo's railway station and "Calle de Allende"; San Luis Potosi and its cathedral; Temple de Santa Clara—Quaretaro; Mexico City, the ancient Tenochtitlan of the Aztecs, the cathedral; snow-crowned Popocatepetl and Iztaccihuatl guarding the cathedral, Puebla; salt market, Cuernavaca; Mexican family in the fields on the banks of the Lerma, Acambarro; Vera Cruz, avenue of palms, main plaza and city hall; public market; San Juan Bautista, government buildings; native dwellings, Pital.		
30–2	**Mexico—B**	25	9
	International bridge from El Paso, Texas, to Juarez; battlefield overlooking Monterey; Calzada del Rey—Chapultepec; Attoyac, on the Mexican Railway; bird's eye view of Orizaba; Juanacatlan Falls—the Niagara of Mexico; on the aqueduct—Guadelupe; Popocatepetl; irrigating pump near Monterey; the Canal Nacional; shipping Indian corn; Vera Cruz' harbor; a street in Frontera; river boats at San Juan Bautista; mahogany and logwood awaiting shipment near El Carmen; mahogany logging camp of Pital; unloading supplies; hauling mahogany logs on wagons; sisal plants; sisal fibers in bales; coffee tree loaded with ripe berries; preparing coffee for consumption; Teotihuacan Valley, Tlaxcala.		
30–3	**Mexico—C**	25	4
	Mexico City: Post Office; Camara de Diputados or House of Representatives; the Palacio Nacional; Juarez monument; bronze statue of Quautemotzin; monument to Independence; Chapultepec Castle; the Tree of the Sad Night, Popotla; a sacrificial stone; the Mexican Tiger; Goddess of Teotihuacan. Monterey: State Capital; Statue of Juarez. Quaretaro: Monument to La Corregidora; a famous chapel. An old church in Frontera; the sacred shrine on Cholula Pyramid. The Pyramid of the Sun; the Pyramid of the Moon. Campeche: Lookout station; gateway; walls.		

CENTRAL AMERICA

30–4	**Central America—A**	19	—
	Guatemala: Cerro de Carmen; Church of the Mercy; Temple of Minerva; Columbus Monument, Plaza de Armas; old church and Volcan de Aqua, Escuintla; thatched roofs of Santa Maria; "Coffee Finca." The market of La Union, Salvador.		

No.	Subject	No. of Slides	No. Colored
	Costa Rica: Port Limon and the Caribbean Sea; bird's eye view of San Jose; foyer of the National Theatre, San Jose; in the heart of old Heredia; mountain terrace of Tucurreque; thatched cottages on a banana plantation. Nicaragua: Cathedral roof and three of the "Volcanic Marvels," Leon; the picturesque city market of Masaya; water vendor and ox cart on Lake Managua strand; Lake Nicaragua's laundry.		
30–5	**Central America—B**	17	—
	Guatemala: Antigua the ancient Athens of the Occident and Volcan de Aqua; San Francisco Church, Antigua, ruined by earthquakes; Escuintla and the twin volcanoes Fuego and Acatenango; royal palms of an old sugar plantation; the quetzal, Guatemala's emblem bird. Valley and city from penitentiary tower, Santa Ana, Salvador. Costa Rica: Steel arch bridge and the Rio Grande; looking up the valley of the Reventazon, Juan Vinas; tropical verdure above the clouds; loading cattle by the horns, Puerto Limon; coffee piles; harvesting bananas. Nicaragua: Junction of Colorado and San Juan rivers, Canal Route; women sorting coffee; steamboat landing on Lake Nicaragua, Granada.		

EUROPE

30–67	**England—A**	28	9
	London: The Thames at night; the House of Lords; Westminster Abbey; The Poet's Corner; Old Curiosity Shop. Stratford-on-Avon: Shakespeare's home and burial place. Oxford: Quadrangle of Christ Church College; Tower of Magdalen College. Old city walls of York. Ancestral home of George Washington. Carnavon Castle, Wales. Stonehenge. Rural village in winter. Fishing boats at a Devon village, Clovelly. Overhauling and mending the nets. Lake district of England. Lake Windermere. Langdale Valley from Stock Ghyll Force. Tilly Whim Caves. The artist's dream.		
30–68	**England—B**	22	—
	London: Buckingham Palace; St. James Palace; Houses of Parliament; House of Lords and House of Commons; Westminster Abbey; The Admiralty; the National Gallery; St. Paul's Cathedral; Bank of England; Royal Exchange; the Customs House; British Museum; Residence of the Lord Mayor; the Tower of London; Royal Horticultural Gardens; Royal Albert Hall of Arts and Sciences; Albert Memorial; Marble Arch.		

No.	Subject	No. of Slides	No. Colored
30–69	**Scotland** ..... Grampian Hills; the Falls and Gorge of Bracklin; the Trossachs Hotel and Ben Venue; Loch Lomond and Inversnaid Falls; Hawthornden; Inverness; the Causeway, Staffa. Edinburgh: The West Bow, High Street; House of John Knox; St. Giles interior. Bridge over the Forth; fountain at Holyrood; Jedburgh Abbey. A Highlander with bagpipes; the waterfront at Greenock; sheep on the Island of Mull; Aberdeen; Balmoral Castle; fishermen's wives and bairns, Wick; Cathedral and Celtic Cross, Island of Iona.	28	26
30–70	**France—A** ..... Brittany: Fishing boats at Le Croisic; salt fields; old houses at Auray; in a village home; making wooden shoes; farming near Carhaix; a religious festival at Guemene; gossip beside the canal—Josselin; oyster beds at Cancale. Mont Saint Michel—Normandy; Gers; fishing boats at Etretat; the Seine at Rouen; bird's eye view of Beauvais; shipping at Boulogne; fields near Agincourt; vineyards near Rheims; champagne cellars; cattle raising and farming near Sedan. Paris: The great City Market; flower market; in the Latin quarter; making Gobelin tapestry. Sheep near Chartres; haymaking in the Pyrenees; peasants on the Riviera.	27	27
30–71	**France—B** ..... Paris: Eiffel tower from Arch of Triumph; Avenue of the Grand Army; the Old City Island; Notre Dame; the Seine bridges; Abbey Church of St. Denis. Amiens Cathedral; courthouse at Rouen; Cathedral at Rheims; Statue of Joan of Arc; the Duke's Castle; Chartres and Cathedral; medieval walls of Carcassone; bedroom of Marie Antoinette; throne room and sarcophagus of Napoleon; Sedan; druid stones at Carnac; the coast of Finistere; battlefield of Crecy; glacier-covered Pyrenees; the Cornich Road; the Riviera at Mentone; St. Agnes Day procession.	27	27
30–77	**Belgium** ..... Brussels: Hotel de Ville or City Hall; House of Parliament; House of Representatives; the King's Palace; the Church of Sablon; the canal basin; old Guild Houses in the Grande Place; the House of the King; Port de Hal; a dog cart. Bruges: Panorama toward Maritime Canal; Hotel de Ville; a lace worker; Flemish Gables; the Gate of St. Croix. Belfry and Cathedral—Furnes; Oudenarde; Ypres; Cathedral—Antwerp; Grande Marche—Liege; old houses at the Quai aux Herbes in Ghent; the little town of Anseremme near Dinant; the Roche a Bayard. Waterloo: The Lion Mount; the chateau of Hougoumont; La Belle Alliance.	28	—

No.	Subject	No. of Slides	No. Colored
30–14	**Italy**	19	—
	Rome: The Tiber, Castle of San Angelo, and St. Peter's Church; the Vatican, its Library, Gallery of Statues, and Hall of Immaculate Conception; the Forum of Trajan; columned monuments of the dead empire; the Triumphal Arch of Titus; the Colosseum. Florence: The Cathedral; Ponte Vecchio, the most curious bridge in the world; the Royal Gallery. Venice: The Piazza de San Marco and its bevy of pigeons; Bridge of Sighs; the Rialto Bridge. The Leaning Tower of Pisa. Monument to Columbus—Genoa.		
30–36	**Switzerland**	28	—
	Interlaken and the Royal Jungfrau; Lucerne; Brunnen; the Clock Tower, Berne; the little village of Brienz; William Tell's Altdorf; the Wetterhorn from Grindelwald; a mountain chalet; Wengen, its meadows and forests; Murren and the Breithorn; Lauterbrunnen Valley and the Fall of the Staubbach; a wood carver, Meiringen; blowing the Alpine horn; guide cutting steps in the Upper Glacier, Grindelwald. Scenes from Mt. Pilatus; the Matterhorn; Castor and Pollux; Axenstrasse above Brunnen; the Great Scheidegg; Riffelalp from the Gorner Gorge; entrance to the Gorge of the Aare, Meiringen.		
30–62	**Norway**	28	—
	Transatlantic steamer arriving at Oslo; shipping in the modern harbor of Bergen; busy wharves of Oslo; approaching the locks in Bandak Canal; Oslo's principal street: Carl-Johans-Gade; Municipal Hospital and "Festal Hall," Oslo; Royal Frederick University; the National Theatre; historic Cathedral at Trondhjem; vegetable market, Bergen; a whaling station; drying codfish; fishermen of the North Coast; lumber measuring; white Norway Pine; hay farming in the heart of Norway; flour mills along the Tufte-Elv; Hardanger women carrying water; spinning in a Telemarken home; peasant "Flat Bread"; a Vossevangen wedding; Lake Bandaksvand; the Naerodal and Stalheim Hotel; the Naerofjord; where the Lotefos and the Skarsfos meet; typical farming in the barley country; Haukeli-Saeter in May.		
30–63	**Czechoslovakia**	27	—
	President Masaryk signing the Czechoslovakian Declaration of Independence; National Hall, Prague; the Castle and Cathedral of St. Vitus; the National Theatre. Prague: Woodrow Wilson Railroad Station; monument to John Huss; medeival tower; old Town Hall; the Strahov Library; near the river; the Ghetto; State		

No.	Subject	No. of Slides	No. Colored
	Officials' apartment house; Gymnastic Congress; cutting ice on the river. The Skoda Iron Works of Pilsen; Bohemian cut glass and carved glassware; Karlov Tyn —castle of ancient kings; Hrustin, a peasant village; a Ruthnian fair; peasant woman spinning—Piestany; peasant handwork displayed in Zesko; Slovak peasant wedding party; Sunday in Ruthnian Czechoslovakia.		
30–80	**A Visit to Sweden**	28	—
	Sweden's geographical location; contrast of old farming methods and modern developments; airport at Malmo; importance of electricity, its extensive use; a farm in Scania, southern Sweden; Kattegat on the North Sea; Gothenburg, the gateway to the Atlantic; Vener, Vetter, and Malar lakes; Stockholm, the "Venice of the North"; the Royal Palace; Riddarholmen, the Island of the Nobles; Norrmalm. Stockholm: The old town; the new city; Town Hall. Gotland; Dalecarlia's lakes; Varmland; Lake Lekvattnet, of the mountains; the river Harsprang; concentrated agriculture at Tornetrask; the Laplanders; beyond the Arctic Circle.		
30–81	**People of Sweden**	28	—
	Swedish people of today; girls of Dalecarlia; a Dalecarlian family; girls herding cows in the mountain pastures of Dalecarlia; interior and exterior of an old house; the native costume is always worn to church; Skansen, at Stockholm, a museum in the open; the home of Linnaeus, or Carl von Linné; the John Ericsson Monument; Royal Dramatic Theatre, Stockholm; a school building in Stockholm; Technical High School; Stockholm's Stadium; ski-jumping and ice-boating; sport grounds of the North; the church at Rättvik; a modern church; Swedish social institutions; a Lapp village; reindeer.		
30–82	**Industries of Sweden**	28	—
	An old farm in Scania; modern scientific farming; fishing; mining iron underground at Gällivare; a surface mine at Kirunavaara; the ore mountain at Kirunavaara at night; mining at Kiruna; manufacturing steel at Munkfors; the Falun copper mine; the falls and power plant of Trollhättan; the Porjus power plant; Halling River Falls; great forests of the North; lumber transportation in winter; floating timber down the rivers; the Kramfors sawmill; Göta Canal; the Technical University, Stockholm; shipbuilding; match factory at Jönköping; mechanical industry at Karlstad; ball-bearing factory; Huskvarna factories; Swedish glass and textiles.		

No.	Subject	No. of Slides	No. Colored
30–83	**History of Sweden**	23	—
	Runestone; Codex Argenta; Upsala, Kings' graves; Upsala Cathedral; Visby; Alvastra Cloister; Vadstena Castle and Church; Kalmar Castle; Gripsholm Castle; Läckö Castle; Skokloster Castle; Drottningholm Castle; Royal Palace, Stockholm; Town Hall of Stockholm; modern Sweden; the Riddarholm Church.		
30–78	**Ruins of Ancient Greece**	25	—
	Arch of Hadrian looking towards the Acropolis; monument of Lysikrates; Temple of Olympian Zeus; Temple of Athena Nike; the Parthenon; the Caryatid Porch of the Erechtheion; Jupiter Temple Area and Stadium; Odeion of Herodes Atticus; the Theseum; colossal figure of Poseidon, National Museum; the Street of Tombs; Theatre of Dionysos—reconstruction; seats of the Judges; Theatre of Bacchus; Theatre of Epidaurus; ruins of the Temple of Apollo, Corinth; Museum at Olympia; excavations at Corinth; entrance to treasure of Klytaemnestra, Mycenae.		
30–66	**Russia Before the Revolution**	27	—
	(These slides cannot in any sense represent the Russia of today; but are particularly interesting because of their historical value, since it will never be possible to photograph these scenes again.) The Neva River at Leningrad; the Nevski Prospect; street scene, Leningrad; the Imperial Winter Palace; Palace of Peterhof; Cathedrals of St. Isaacs, Sts. Peter and Paul, Leningrad; the Alexander Column; Moscow; the Kremlin and Moscow River in winter; Nikolskaja Gate; Redeemer Gate; the "King of Bells"; the Romanoff House; street markets; Novgorod fair; the cloth market; Nizhni Novgorod floating bridge; a roving Tartar; the bell market; the Nicholas suspension bridge over the Dneiper; peasants driving cattle to water; fishermen on the Volga.		
30–38	**A Travel Tour of Europe**	97	97
	Historic buildings and scenery throughout England, Scotland, Ireland, Wales, France, Spain, Italy, Capri, Switzerland, Austria, Germany, Holland, Belgium, Norway, and Sweden.		

This set is in two units, not to be separated.
Rental price, $1.00.

No.	Subject	No. of Slides	No. Colored
30–92	**Madeira to Bethlehem, Pt. I**	22	22

Madeira—Funchal; Funchal—Fountain Square; Madeira—Toboggan Sledges; Gibraltar; Algiers—Mosque; Algiers—St. Philippe Cathedral; Algiers—an Arab beggar; Monte Carlo from the sea; La Turbie—an old gateway; Naples—Neapolitan chair weavers; Amalfi—South of Pompeii; Haifa—the monastery; Nazareth—Mary's Well; Tiberias—the Sea of Galilee; Cana—the Church of the Miracle; Jerusalem—the Mosque of Omar; Jerusalem—the Jews' Wailing Wall; Bethlehem.

ASIA MINOR

30–65	**Turkey and Bulgaria**	24	—

Constantinople, the "Sultan's Paradise": across the Golden Horn from Pera to Stamboul; the famous Galata Bridge; the mosque of St. Sofia; public letter writers; market at Stamboul; street scene; a minaret in Galata; the Street of Steps; the Egyptian Obelisk, Hippodrome. Fifteenth century fortifications on the Bosporus; from the Bosporus to the Black Sea. Kurd water carriers at a public fountain in Galata; view from the slopes of the Balkan Mountains toward Sofia. Street scene in Sofia showing peasant women in sidewalk coffee house; making and drying native bread in the streets of Berkovitsa; peasant women spinning flax; washing at a wayside well; Mohammedan farmer plowing with a buffalo team; driving geese to market on the Sofia road.

ASIA

30–51	**China—A**	28	8

Homes around the city hall, Peiping, and along the canal, Nanking; sampan homes on the Yangtze-Kiang; eating rice; a law breaker wearing the cangue; boy peddlers; a village barber shop; shoemakers by the roadside; natives at breakfast; a movable chow shop—Canton; store of a wholesale tea merchant of Chifu; cultivating rice; irrigating fields by the windmill method; a bookseller of Hangchow; a Peiping sawmill; drying freshly reeled silk; Chinese longshoremen; head of Nanhow Pass—the Great Wall, North China; Tibetan camels; freight and passenger wheelbarrows; water-carriers of Tien-Tsin; Chinese junks on the Hoang-ho River; an ancient Chinese junk; the China Sea; unloading steamer cargo onto a lighter.

No.	Subject	No. of Slides	No. Colored
30–52	**China—B**	22	9

A view from "The Peak," Hong Kong; the villages of Muchan and Yung-tse on the Yangtze-Kiang; the Great Wall; typical gate and tower; in the native quater of Shanghai; a Mandarin's garden; the examination halls of Nanking; marble bridge over the moat around Peiping; a carved gate to the Imperial Palace; gardens in the palace grounds; interior of the Throne Room—Forbidden City—Peiping; examples of Chinese architecture; entrance to a Chinese temple; priests in their ecclesiastical robes; the three great Buddhas—Canton; worshipping at a shrine; the Temple of Heaven, Peiping; the Sleeping Elephant, Nanking.

30–96	**Madeira to Canton, Pt. III**	24	24

Madura—Gopurams, native types; Colombo—a pagoda, Buddhist Priests, Kelani Buddhist Temple, natives climbing cocoanut palm; Kandy — elephant troop, the temple of the Tooth, Paddy fields; Padang —fencers and dancers; Batavia—street canals, Penang Gate, making Batik; a street sprinkler; Buitenzorg—Palace of the governor, a creeping palm; Singapore—palm trees, a Malay hut, Mosque at Johore; Manila—Santiago Gate, San Augustine Church; Canton—a canal, ancestral temple of the Chan Clan, shrine of the 500 Genii.

30–46	**Japan—A**	28	28

People, customs, and occupations. Cherry blossoms; girls playing fox and geese; doll shop; children playing hop scotch; girls carrying babies; western influence on dress; Japanese villa; painting lacquer ware; brass and silversmiths; washing and peddling vegetables; threshing and hulling rice; weighing tea leaves in the field; Japanese postman; mat maker; sawing timber; carpenters; joiners; constructing houses; coopers; selecting silk worms; boiling cocoons and unreeling silk; weaving cloth; fishermen; drying sardines.

30–47	**Japan—B**	28	28

Stone torii—Hakone Lake; Chusenji Lake and Nantai Mountain—Nikko; stone steps to Iyeyasu Tomb; stone steps of Nakanotake Myogi; Fujiyama from Nishino Lake; Enoshima; Dragon's Cave, Enoshima; Mihashi, or sacred lacquer bridge; Kwannon Temple, Asakusa —Tokyo; cherry blossoms at Nogeyama—Yokohama; Theatre Street; paper, fan, and magazine store; clothing shops; confectioner; coarse ware shop; traveling chair on the Hakone Road; girls in jinrikisha; coolies and carts; river barges; Japanese junk.

No.	Subject	No. of Slides	No. Colored
30–48	**Japan—C**	28	28
	Nikko: Pagoda and stone torii; Iyeyasu Temple Niomon; stone basin; Sanjinko treasure house; Yomeimon Temple gate and dancing room; wall carvings; bronze gate—Tomb of Iyeyasu. Miko Temple dancing girls at Nara; Kasuga Temple. Interior of Sanjusangendo Temple—Kyoto. The Great Bronze Buddha at Kamakura; entrance torii, Hachiman Temple; Daibutsu at Kobe; Kotohira Temple at Tokyo; interior of Asakusa Temple. Osuwa Bronze Horse—Nagasaki; Jizo stone image at Ganman; storks in the Temple Garden; Buddhist priests. Cherry trees in blossom in Uyeno Park, Tokyo.		
30–49	**Japan—D**	20	20
	The story of "The Moon Maiden of Fujiyama"; scenes of Fujiyama; bamboo grove—Kyoto; cherry blossoms and Japanese gate; an iris garden; maple trees, Oji, Tokyo; iris field, Isogo, Yokoyama.		
30–93	**Shanghai to Havana, Pt. IV**	31	31
	Shanghai — Willow Pattern Tea House, Lunghwa — Pagoda, the Moon Arch, Chinese ships; Peking — Chien Men Gate, Gateway to the Forbidden City, the Temple of Heaven, Hall of Classics, Nine Dragon Porcelain Screen, Temple of the Clouds; the Great Wall of China; Kobe—Cherry blossoms and children; Nara—Japanese girls; Torii and Sacred Deer; Kyoto —Pagoda at Omuro Temple, Theatre Street, Japanese girls, the Imperial Hotel; Nikko—Sacred Red Lacquer Bridge; Yokohama—along a canal; Honolulu—a pineapple plantation, Beach at Waikiki; Hilo—Kilauea Volcano; San Francisco; Panama—the old cathedral; the Panama Canal; Havana—Morro Castle, the Prado.		
30–94	**Jerusalem to Madras, Pt. II**	26	26
	The Mount of Olives—the Garden of Gethsemane; Cairo—Mosque of Mohammed Ali, Shari Abdin, King Fuad's Palace, Shari Taht-El-Kab; a trip on the Nile; Bombay—Victoria railway station, a coolie laborer, a street barber; "Across India" train; Delhi—Chandni Chauk, the cloth bazaar; Agra—the Taj Mahal, marble screen in the Taj Mahal; Benares—the Monkey Temple, Bathing Ghats; Calcutta—Jain Temple, Government House, the Great Banyan Tree, Hindu Fakirs, a coolie porter; Darjeeling—entrance to a monastery; Madras—Chepauk Building, Gopuram of Mylapore.		

HISTORY

CALIFORNIA

No.	Subject	No. of Slides	No. Colored
30–15	**California History—A**	28	12

Indian houses of northwestern California; sabertooth tiger; Indian rancheria, Mendocino County; hut of tule mats, Tulare Lake; Mohave Indian family; splitting acorns near Fresno Flat; making acorn meal; acorn baskets; burden baskets; basket caps of Indian women; coiled baskets of Mendocino Indians; a papoose basket; a salmon tray; starting knots for Indian baskets; basket-making materials; stone implements used by the Indians; Indian pottery; Indians crossing San Francisco Bay; the White Deer Skin Dance.

30–16	**California History—B**	19	14

Christopher Columbus and his voyage of discovery; Cortez meets Montezuma; Catalina was discovered by Cabrillo; the Northern California coast; a Manila galleon; Sir Francis Drake—the world as he thought it was—his capture of the Manila galleon; the world as Drake found it; California was thought to be an island; Portola's discovery of a new bay; Anza, founder of San Francisco; the Anza expedition; the San Carlos entering the Golden Gate, 1775; Point Reyes lighthouse.

30–17	**California History—C**	28	23

Father Junipero Serra; the founding of his mission; San Diego Mission; San Luis Rey; campanile at San Antonia de Pala; altar in the Pala Mission; Niche and Holy Water Font; San Juan Capistrano—its ground plan; a mission olive press; San Gabriel; ruins of soap vats; San Fernando Rey de Espana; ruined church; San Juan Buenaventura; Santa Barbara Mission, modern; irrigation by the padres; Santa Ynez; ruins of old Purisima Mission; Mission La Purisima Concepcion.

30–18	**California History—D**	19	19

Mission San Luis Obispo; Santa Margarita Chapel; San Miguel; San Antonio de Padua; Soledad; San Carlos (Carmel) Mission as Vancouver saw it, 1794; San Carlos in the Thirties; San Carlos before and after restoration; Santa Cruz; San Juan Bautista; Santa Clara; San Jose; San Jose in 1853; Judas Day at Mission Dolores; San Francisco; San Rafael; San Francisco Solano.

No.	Subject	No. of Slides	No. Colored
30–19	**California History—E**	25	24

Spanish costumes of the caballero and vaquero; the rodeo; method of catching and branding cattle; the Matanza, or Slaughter Day; catching wild horses; a horse race in pastoral California; snatching the rooster; threshing grain; the Governor's carriage; a Spanish California carreta; wash day on the rancho; patio of Spanish California residence; Presidio de Monterey, 1794; Fort Ross about 1830; the Greek Church at Fort Ross; General Vallejo's troops at Sonoma, 1836; Fort Vancouver, headquarters of the Hudson Bay Company; Yerba Buena in 1837; the Santa Fe route; Mount Rubidoux; Los Angeles in the early fifties; flags that have flown over California.

30–20	**California History—F**	17	11

Sutter's Fort today; the Donner Party; the Bear flag, June 14, 1846; raising the American flag at Monterey, July 7, 1846; the Public Institute, San Francisco's first schoolhouse; Yerba Buena (San Francisco) in 1846; Sutter's Mill, where Marshall discovered gold; James Marshall; Bigler records the discovery; the Gold Rush as London saw it in 1849; around the Horn, emigrants on deck; landing at Chagres; crossing the Isthmus; crowded steamers from Panama.

30–21	**California History—G**	28	23

Crossing the plains in '49; emigrants on the march; in the buffalo country; emigrants in camp, 1849; an Indian attack on overland party; the desert trail; Yuma, at the edge of California; on the floor of Death Valley. Mining methods of early days; river operations at Murderer's Bar; flume on the Yuba River; the Arastra, or primitive quartz mill; flutter wheel on the Tuolumne; hydraulic mining; modern dredging in gold mines; interior of a miner's cabin; Mormon Island Emporium, Excelsior Tent; the Luck of Roarin' Camp; a dance in the mines; Sunday in the mines; Chinese in the mines; Joaquin Murrieta.

30–22	**California History—H**	27	23

Telegraph Hill in the fifties; by air route; the John L. Stephens; the clipper ship "Glory of the Seas"; Pony Express; Overland Stage leaving for the West; the Indians attacked the stage; the highwaymen collect toll; Edward's crossing, Nevada County; Placerville Stage Depot; mule train in the Sierras; an old Mormon wagon; mountain freight team; Moon's Ferry over the Sacramento River; the railroad reaches Palo Alto; Central Pacific Railroad at Cape Horn; buffaloes disputed the right of way; Heath's Ravine; C. P. Huntington; the Governor Stanford; "Jupiter," Stan-

No.	Subject	No. of Slides	No. Colored
	ford's train; completion of the Pacific Railroad; Sacramento's first depot; modern transportation requires more power.		
30–23	**California History—I**	26	21
	San Francisco in 1848–49; fashions for spring, summer, and fall in 1849; Sacramento and Stockton in 1849; flood at Sacramento, January, 1850; map of San Francisco, 1850; view from Telegraph Hill; east side of the Plaza; first Presbyterian Church in San Francisco; San Francisco prison brig and store ship Apollo; Montgomery and California streets, 1856; General Sutter boosted for Suttersville; Nicolaus bids for leadership; the State Capitol, 1849–51; the Great Seal of California; California counties in 1850 and at the present time; Mount Diablo.		
30–24	**California History—J**	20	20
	Early State Capitol at Vallejo; Benicia, the State Capitol in 1853; gambling in the mines; Placerville in the early fifties; Coloma; Bidwell Bar, 1854; Downieville; Timbuctu; Nevada City in the fifties; Marysville about 1856; Los Angeles, 1857; San Jose from the City Hall, 1858; California in the Civil War; the new Constitution; early California Colleges: Pacific Methodist, Napa, Pierce Christian, and Washington.		
30–25	**Califoria History—K**	23	23
	Santa Barbara in the seventies; San Diego; Los Angeles fifty years ago; harvest scenes of the eighties; development of flour mills; the I. W. Hellman residence; San Bernardino; Millerton; Stockton; Sacramento street scene, 1880; Rancho Chico, residence of John Bidwell; Oakland; Hayes Valley, San Francisco; Ferry Building; Palace Hotel; marketing on Sansome street, San Francisco; a residence of 1880; in the days of wheat; loading the logging train; a pioneer mill; the first navel orange tree; a Fresno farm.		
30–26	**California History—L**	28	28
	Modern California; the combined harvesters; caterpillar tractor hauling grain; irrigation; drying and preparing seeded raisins; dairying; flour mills; along the Eel River; oxen gave way to donkeys; logging on railway and mill pond; saw-mills; light and power from distant streams; orange groves and snow-capped mountains; sorting, washing, and boxing oranges; an early spring garden in Imperial Valley; tropical fruits; a California cotton gin; southern oil fields; Los Angeles, Broadway at Tenth; Southern California from Mount Lowe; Eastbay Cities now cover the old Peralta Rancho; the City by the Golden Gate; the State Capitol, Sacramento.		

ENGLAND

No.	Subject	No. of Slides	No. Colored
30–100	**Normans in England**	24	—

The "Mora" and other Norman ships; a tournament—time of Edward IV, hand-to-hand combat, jousting, announcing the tilting, archer with a sheaf of arrows; massive Norman masonry; Norman castles; Oakham Castle—exterior and interior; Earl's Barton, Sompting Towers, etc.; the Norman house; the Priory Mill, Christchurch; Longthorpr Manor house; the Tower of London; rural life in the eleventh century; a windmill; weaving, 1130–1174; book illumination; *Truthe's Pilgrim atte Plow;* miniature portrait of John Gower; monument to Gower.

FRANCE

30–6	**History of France—A**	22	—

Earliest times to death of Joan of Arc: Baptism of Clovis, 496; Charles Martel at Tours; Charlemagne, his coronation; excommunication of Robert the Pious; Philip Augustus at Bovines; death of St. Louis, 1270; massacre of the Sicilian Vespers, 1282; burning of Jacques de Molay, 1314; battle of Crecy, 1345; capture of John II at Poitiers, 1356; the Jaquerie, 1358; Marcel and the Dauphin Charles; Joan of Arc, her activities and death; Agnes Sorel reproaching Charles VI; Gaston de Foix.

30–7	**History of France—B**	28	—

Reign of Louis XI through the reign of Henry IV Navarre: Portrait of Louis XI; death of Charles the Bold; Louis XI pleading with Francis for health; death of Bayard, 1525; portrait of Francis I; capture of Francis I at Pavia; Francis at Madrid; Charles V; Margaret of Navarre; Francis I and Duchess D'Estam visit the studio of Benvenuto Cellini; Ambroise Pare making a ligature; conference at Poissey, 1561; massacre of St. Bartholomew, 1572; escape of the Huguenots; assassination of Coligny, 1572; Henry III; assassination of Duke de Guise, 1588; portrait of Henry of Navarre; battle of Ivry, 1590; Henry IV enters Paris, 1594; St. Vincent de Paul visiting prisoners; assassination of Henry IV, 1610, by a lunatic.

30–8	**History of France—C**	22	—

Influence of Richelieu and the reign of Louis XIV: Concert at the court of Richelieu; assassination of Marshall D'Ancre; arrest of Leonora Galigai for treason; Richelieu at the Siege of Rochelle; Anne of Austria subjected to search; arrest of Marquis de Crespere by Richelieu; Cinq-Mars and de Thou going to execu-

No.	Subject	No. of Slides	No. Colored
	tion, 1642; death of Louis XIII, 1643; portrait of Louis XIV; the Grand Conde; death of Cardinal Mazarin, 1661; Louis XIV founds the Hotel Invalides; Madame Valliere; death of Turenne; Admiral Tourville's naval battle; Torture of the Huguenots; the battle of Admiral Jean Bart; the Man in the Iron Mask, 1700; Fenelon distributing bread during famine; Molière at the Court of Louis XIV.		
30–9	**History of France—D**	28	—
	Louis XV, Louis XVI and the French Revolution: Portrait of Louis XV; the Battle of Fontenoy, 1745; Madame Pompadour in the studio of Bucher; portrait of Louis XVI; Louis XVI at his forge, Versailles; Marie Antoinette; assembly of States General, Paris, May, 1789; Lafayette; the Oath of the Tennis Court; Mirabeau's reply to the King's Deputy; assault and capture of the Bastille; mob at Hotel de Ville; the return from Versailles; arrest of Louis XVI at Varennes; Rouget de L'Isle singing the Marseillaise; Louise XVI and family in prison; Princess Lamballe; trial of Louis XVI; arrest of Charlotte Corday; Marie Antoinette before her execution; in prison during the Reign of Terror; Robespierre.		
30–10	**History of France—E**	28	—
	Life of Napoleon: At military school at Briene, 1784; crossing the Alps, 1796; at the Battle of the Pyramids, 1798; the Battle of the Nile, 1798; in the Council of Five Hundred, 1799; coronation of Napoleon and Josephine; portraits of Napoleon in royal robes and in uniform; the surrender of Ulm; cheering soldiers on eve of Austerlitz, 1805; meeting of Napoleon and Francis Joseph; marriage of Napoleon and Marie Louise, 1810; the burning of Moscow, 1812; the retreat from Moscow; breaking down the bridge at Beresina; returning to Paris; the Battle of Leipzig; Napoleon after the Battle of Nations; abdication of Napoleon; at Elba; returning from Elba; attack on Hugemont at Waterloo, 1815; on the way to St. Helena; dictating memoirs.		

BIOGRAPHY

30–35	**Julius Caesar**	21	—
	The Dictator Sulla banishing Caesar from Rome; the Gauls invoking their gods; Vercingetorix defying Caesar; the reply to Cato in the Roman Senate; Brutus warning Caesar; Caesar saves Brutus from assassination; in conference with his generals; his triumphal entry into Rome; he declares himself Dictator of		

No.	Subject	No. of Slides	No. Colored
	Rome; money from the Temple of Saturn for supplies; the fleet of Pompey; conspirators induce Brutus to join them against Caesar; a soothsayer warns Caesar to beware the Ides of March; Brutus touches Caesar on the shoulder; Marc Anthony denouncing the traitors of Caesar.		

LITERATURE

SCOTLAND

30–79	**Sir Walter Scott**	26	23
	His life and works: An old engraving; a portrait; his Edinburgh home; his library; Abbotsford; Scott memorial on Princess Street, Edinburgh; Loch Katrine; Brig O'Turk; Katrine's Lake; Ellen's Isle; Loch Achray and Ben Venue; Linlithgow Castle; Tantallon Castle; Dunbarton Castle; the Valley of the Forth; the River Forth and Valley; Melrose Abbey; Roslyn Chapel; view from Stirling Castle; Abbey Craig; Loch Lomond; Rob Roy's grave.		
30–57	**Robert Burns**	20	18
	His life and works: Portrait; his birthplace at Alloway; statue and monument at Ayr and Dumfries; Alloway Kirk. Scenes from "Brigs of Ayr," "Tam O'Shanter" and "Cotter's Saturday night."		

ENGLAND

30–84	**The Canterbury Tales**	33	—
	Chaucer, his tomb; Canterbury; the martyrdom of Thomas à Beckett; the "Tabard," the pilgrims setting out on their journey; pictures of the main characters in the Tales.		
30–85	**William Shakespeare: His Life and the Times: Drama**	22	—
	Famous Shakespearian actors and actresses: Mr. Burbage, Mrs. Siddons, Mr. Garrick, Mrs. Pritchard; the Elizabethan stage; the Blackfriars, Swan, and Rose Theatres; Stratford-on-Avon; portraits of Shakespeare; Anne Hathaway's Cottage, New Place.		
30–86	**The Anglo-Saxon Period**	23	—
	Social and military customs of the times; *Beowulf*, the Laws of Alfred, Caedmon's Hymn; historical background: William the Conqueror, Battle of Senlac, death of Harold.		

No.	Subject	No. of Slides	No. Colored
30–87	**The Restoration Period (1660–1700)**	20	—
	The execution of Charles I; coronation of Charles II; the Great Fire and Plague; dramatists: Wycherley, Congreve; William and Mary on the throne; John Dryden; Bunyan, his birthplace and meeting house; a page from *Pilgrim's Progress.*		
30–88	**English Literature from 1700 to 1745**	20	—
	Addison and Steele: *The Spectator* and *The Tatler,* their importance; Alexander Pope: his villa, Martha Blount, Hampton Court; Defoe: *Robinson Crusoe,* in the Pillory; Swift; Stella.		
30–89	**The Romantic Period (1798–1832)**	20	—
	Napoleon and the French Revolution and their effect on literature: Shelley, Keats, Byron, Southey, Wordsworth, Scott, Lamb.		
30–90	**Samuel Johnson and His Circle**	21	—
	Johnson's home, birthplace and Hebridean costume; taverns and clubs of the time; the members of Johnson's circle: Boswell, Burke, Gibbon, Reynolds; historical background: Industrial Revolution, French and American revolutions.		
30–91	**Novelists of the Later Eighteenth Century**	15	—
	Eighteenth century amusements at Vaux Hall, Ranelagh, and Marylebone; coffee houses and taverns; Fielding, Sterne, Smollett, Richardson, Goldsmith, Walpole, Mrs. Radcliffe.		
30–95	**Charles Lamb**	15	—
	The "Lamb Country"; Charles Lamb—Portrait; the Inner Temple; Christ's Hospital, the Writing School; Charles and Mary Lamb; Fleet Street, showing St. Dunstan's Church; Bow Street and Covent Garden Theatre; an emblematical print on the South Sea Bubble; in Leigh Hunt's study; the India House in Lamb's day; Shakespeare; Colebrooke Cottage and the New River; Interior of Theatre Royal; Drury Lane; cottage at Edmonton where Charles died; grave of Charles and Mary Lamb at Edmonton.		
30–98	**John Milton**	16	—
	Portraits of John Milton; Christ's College, Cambridge; the Church at Horton; Maypole dance in the time of Charles I; trial of Charles I; Cromwell at Marston Moor; reprint from one of Milton's documents; Milton's home, Chalfont, St. Giles; the Great Fire of London; London after the Fire; church of St. Giles, Cripplegate.		

NATURE STUDY

BIRDS

No.	Subject	No. of Slides	No. Colored
30–30	**Birds—A**	20	20
	The great blue heron; pied-billed grebe; coot, or mud hen; killdeer; spotted sandpiper; cooper hawk, female; sharp-shinned hawk, male; Western red-tailed hawk; desert sparrow hawk; barn owl; screech owl; pigmy owl; long-eared owl; short-eared owl; Western horned owl; sooty grouse; Oregon ruffed grouse; valley partridge or quail; mountain quail; bob-white; ring-necked or China pheasant; band-tailed pigeon; mourning dove; rufous humming-bird; Pacific night hawk; vaux swift; Western purple martin; barn swallow; rough-winged swallow; say Phoebe; kingbird; Arkansas or Western kingbird; yellow-headed blackbird; bobolink; crow; magpie; Clarke nutcracker; Oregon jay; Stellar jay; Bohemian waxwing; cedar waxwing; belted kingfisher; water ouzel.		
30–31	**Birds—B**	20	20
	Harris, Gairdner and California woodpeckers; red-shafted flicker; red-breasted sapsucker; pileated woodpecker; Lewis woodpecker; Macgillivary warbler; lutescent, hermit, Townsend, and black-throated gray warblers; Pacific yellow-throat; Audubon, yellow, and pileolated warblers; tule wren; long-tailed chat; Western winter wren; Seattle and Pacific house wrens; red-breasted, pigmy and slender-billed nuthatches. Sparrows: Golden-crowned, nuttall, vesper, chipping, Western Savannah, song, Western Lark, and fox. Oregon towhee; Oregon junco; California purple finch; Cassin purple finch; crossbill; pine siskin; black-headed grosbeak; lazuli bunting; Western evening grosbeak; Hepburn rosy finch; redpole; varied thrush; Western robin.		
30–43	**Bird Nests and Eggs—A**	17	—
	Nests and eggs of valley quail, plumed quail, killdeer, and Wilson snipe. Nest, eggs, and downy young of California gull. Nest, eggs, and young of Anna humming-bird; Costa humming-bird's nest.		
30–44	**Bird Nests and Eggs—B**	17	—
	Nesting cavities of California, Cabanis, and white-headed woodpeckers. Nests of cliff swallow and bush-tit. Nests and eggs of brown thrasher, willow thrush, Western robin, mountain bluebird, red-winged blackbird, Western meadowlark. Young mountain bluebird. Ruffed grouse in location.		

No.	Subject	No. of Slides	No. Colored
30–45	**Bird Nests and Eggs—C**	17	—
	Nest, eggs, and young of warbling vireo. Nests and eggs of Calaveras warbler, lazuli bunting, junco, field sparrow, and Modoc song sparrow. Nests of gray vireo, Least vireo, lutescent warbler, yellow warbler, Tolmie warbler, black-throated gray warbler, rose-breasted grosbeak, and linnet.		

FLOWERS

30–32	**Wild Flowers of California—A**	15	15
	California poppy, blue and white lupine, blue-eyed grass, Ithuriel's spear, yellow pansy, sunflower, common golden-rod, Indian paint brush, prickly pear, barrel cactus, sand verbena, Spanish bayonet, desert sunflower, desert star.		
30–33	**Wild Flowers of California—B**	15	15
	Yellow sand verbena, beach primrose, purple sand verbena, evening primrose, seaside daisy, thistle, pitcher plant, Sierra reinorchis, monkey flower, wild rose, snow plant, Humboldt's lily, leopard or tiger lily, mission bells, mountain lady's slipper.		
30–34	**Wild Flowers of California—C**	15	15
	Monkey flower, manzanita, California lilac, Christmas berry, Sierra iris, lantern of the fairies, golden lantern, mariposa lily, red larkspur, Western wall flower, sweet pea, scarlet pink, honeysuckle, violet beard-tongue.		

RELIGIOUS

A church may use a set for two consecutive Sundays at no additional cost, but reservation for the second Sunday must be made in advance. The price of each set is $1.00.

Each set has lecture notes.

No.	Subject	No. of Slides	No. Colored
30–53	Abraham's Life in Canaan	49	49
30–54	Moses, the Man Who Laid the Foundations	50	50
30–55	Joseph, the Man Who Understood	50	50
30–56	David, the Best Loved Hero in Hebrew History	50	50
30–59	Last Journeys of Jesus	47	47
30–60	Paul, the Messenger	50	50
30–61	John Bunyan, Life of	49	49
30–64	Trip to Jerusalem, A	49	49
30–72	Trip Through Southern Judea, the Dead Sea, and the Jordan	46	46
30–73	Trip From Jordan to Samaria	30	30
30–74	Trip to Galilee, Mount Lebanon, and Damascus	50	50

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2. PLEASE BE KIND
3. CRY, BABY, CRY
4. Don't Be that way
5. I LOVE TO whistle
6. Tipitipi Tin
7. ON THE SENTIMENTAL SIDE
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